

General Information

75						
	Branch	SIC	County	Basin	Start	
876	Energy and Transportation					End
				1.0200 141461	11/09/1981	

Address

Physical Address (Primary)	Mailing Address
1 Koppers Drive	PO Box 160
Tie Plant, MS 38960	Tie Plant, MS 38960

Telecommunications

Tune	£.
Type	Address or Phone
Work phone number	(662) 226-4584, Ext. 11

Alternate / Historic AI Identifiers

Alt ID	Alt Name	Alt Type		
2804300012	Koppers Industries, Inc.		Start Date	
		Air-AIRS AFS	10/12/2000	
096000012	Koppers Industries, Inc.	Air-Title V Fee Customer	03/11/1997	
096000012	Koppers Industries, Inc.	Air-Title V Operating		
096000012	Koppers Industries, Inc.	Air Title V Operating	03/11/1997	03/01/200
MSR220005	Koppers Industries, Inc.	Air-Title V Operating	01/13/2004	01/01/200
		GP-Wood Treating	09/25/1992	
	Koppers Industries, Inc.	Hazardous Waste-EPA	08/27/1999	
HW8854301	Koppers Industries, Inc.	Hazardous Waste-TSD		
HW8854301	Koppers Industries, Inc.		06/28/1988	06/28/199
376	Koppers Industries, Inc.	Hazardous Waste-TSD	11/10/1999	09/30/200
376		Historic Site Name	11/09/1981	12/11/2006
	Koppers, Inc.	Official Site Name	12/11/2006	// 2000
1SP090300	Koppers Industries, Inc.	Water-Pretreatment		4.44
1SP090300	Koppers Industries, Inc.	Water-Pretreatment	11/14/1995	1/13/2000
ISU081080	Koppers Industries, Inc.		09/18/2001	8/31/2006
	TOPPOTO THOUSINES, INC.	Water-SOP	11/09/1981 1	1/30/1005

Regulatory Programs

Program	SubProgram	Start Date	End
Air	Title V - major	06/01/1900	pate
Hazardous Waste		08/27/1999	
Hazardous Waste Water	TSD - Not Classified	06/28/1988	
Water	Baseline Stormwater	01/01/1900	
	PT CIU	11/14/1995	
	PT CIU - Timber Products		

	Water	Processing (Subpart 429)	11/14/1995	Į
ĺ		CT 0711	11/14/1995	l

Locational Data

Latitude	Longitude	Metadata	S/T/R	Map Links
33 ° 44 ' 3 .00 (033.734167)	8 .06 (089.785572)	Point Desc: PG- Plant Entrance (General). Data collected by Mike Hardy on 11/8/2005. Elevation 223 feet. Just inside entrance gate. Method: GPS Code (Psuedo Range) Standard Position (SA Off) Datum: NAD83 Type: MDEQ	Section: Township: Range:	SWIMS TerraServer Map It

12/20/2006 12:16:40 PM

000876 Koppers Industries, Inc.

AI NAME: Koppers Industries Inc

BRANCH: Energy and Transportation Branch

COUNTY: Grenada

REGION: NRO

SIC 1: 2491

Physical Address

Line 1: 1 Koppers Drive

Line 2: Line 3:

City: Tie Plant

State: MS Zip: 38960

Mailing Address

Line 1: PO Box 160

Line 2: Line 3:

City: Tie Plant

State: MS Zip: 38960

Locational Information

Latitude: Section:

Township:

Range:

Longitude

Historic Names, Active Permit Numbers, and Other Associated IDs

RELATION or PERMIT TYPE	ALT/HISTORIC ID	ALT / HISTORIC NAME	START DATE
Air-AIRS AFS	04300012	Koppers Industries, Inc.	10/12/2000
Air-Title V Operating	096000012	Koppers Industries, Inc.	03/11/1997
Hazardous Waste-EPA ID	MSD007027543	Koppers Industries, Inc.	10/12/2000
Hazardous Waste-TSD	HW8854301	Koppers Industries, Inc.	11/10/1999
Official Site Name	876	Koppers Industries, Inc.	11/09/1981
Water-Pretreatment	MSP090300	Koppers Industries, Inc.	09/18/2001

Water Information

BASIN Yazoo River Basin	RECEIVING STREAMS 1.)	
	2.)	
	3.)	
	4.)	

Staff to AI Assignments

MDEQ STAFF	FUNCTIONAL AREA	
Rao, Maya	Permitting, Branch Manager	
Rao, Maya	Permitting, Permit Writer	
Lee, David	Compliance, Management	
Collier, Melissa	Compliance, Staff	
Collier, Melissa	Enforcement	
Whittington, Darryail	Regional Office, Management	



000876 Koppers Industries, Inc.

Related People Information

PERSON NAME	REALTIONSHIP	
Henderson, Thomas	Is Air Permit Contact For	
Henderson, Thomas	Is Water Permit Contact For	
Henderson, Thomas	ls Contact For	
Basilone, Timothy	Is Contact For	



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

Project ID/Location:

WATER

Project Number:

Date Reported: 12/08/03

Date Sampled: 202/03

Time Sampled:

13:00

Sampled by:

MH

Date Received:

12/03/03

Sample Number: BB60896

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	9.3	1.0	mg/L	405.1	JKS	12/02/02
Oil & Grease	ND	2.0	mg/L	1664A	CNB	12/03/03
Total Suspended Solids	20	1.0	mg/L	160.2	MWS	12/04/03 12/04/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	12/04/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	12/04/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	12/04/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	12/04/03
4,6-Dinitro-2-methylphenol	ND	0.001	mg/L	625	RLT	12/04/03
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	12/04/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	12/04/03
4-Nitrophenol	ND	0.005	mg/L	625		12/04/03
Pentachlorophenol	0.008	0.003			RLT	12/04/03
Phenoi	ND	0.001	mg/L	625 625	RLT	12/04/03
2,4,6-Trichlorophenol	ND	0.002	mg/L mg/L	625 625	RLT RLT	12/04/03 12/04/03

ND = Not Detected

Quality Assurance/Quality Control



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Date Reported: 12/15/03

Date Sampled:

109/03 13:00

Time Sampled: Sampled by:

MH

Project ID/Location:

Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Received: 12/10/03

Sample Number: BB61294

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	21	1.0	ma/I	405.1	****	
Oil & Grease	4.9	2.0	mg/L	405.1	JKS	12/10/03
Total Suspended Solids	41		mg/L	1664A	CNB	12/11/03
,	41	1.0	mg/L	160.2	MWS	12/12/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	10/11/00
2-Chlorophenol	ND	0.002	mg/L	625		12/11/03
2,4-Dichlorophenol	ND	0.002	-		RLT	12/11/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	12/11/03
4,6-Dinitro-2-methylphenol	ND	0.002	mg/L	625	RLT	12/11/03
2,4-Dinitrophenol	ND		mg/L	625	RLT	12/11/03
2-Nitrophenol		0.006	mg/L	625	RLT	12/11/03
4-Nitrophenol	ND	0.002	mg/L	625	RLT	12/11/03
-	ND	0.006	mg/L	625	RLT	12/11/03
Pentachlorophenol	0.009	0.001	mg/L	625	RLT	12/11/03
Phenol	ND	0.002	mg/L	625	RLT	12/11/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	12/11/03

ND = Not Detected

Quality Assurance/Quality Control



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

To: Koppers Company

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

12/24/03

Date Sampled: 1

Date Reported:

14:00

Time Sampled: Sampled by:

MH

Project ID/Location:

Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Received: 12/17/03

Sample Number: BB61815

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand Oil & Grease Total Suspended Solids	18.3 ND 66	1.0 4.0 1.0	mg/L mg/L mg/L	405.1 1664A 160.2	JKS CNB MWS	12/18/03 12/17/03 12/22/03
Phenolic Compounds 4-Chloro-3-methylphenol 2-Chlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 4,6-Dinitro-2-methylphenol 2,4-Dinitrophenol 2-Nitrophenol 4-Nitrophenol Pentachlorophenol	ND ND ND ND ND ND ND ND	0.002 0.002 0.002 0.002 0.001 0.005 0.002 0.005 0.001	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	625 625 625 625 625 625 625 625	RLT RLT RLT RLT RLT RLT RLT RLT	12/18/03 12/18/03 12/18/03 12/18/03 12/18/03 12/18/03 12/18/03 12/18/03
Phenol 2,4,6-Trichlorophenol	ND ND	0.002 0.002	mg/L mg/L	625 625	RLT RLT	12/18/03 12/18/03 12/18/03

ND = Not Detected

Quality Assurance/Quality Control

ARGUS ANALYTICAL, INC.

235 Highpoint Drive Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Date Reported:

12/31/03

Date Received:

Sampled by:

Date/Time Sampled:

12/22/03

11:00

NELAP Accredited

LELAP 04023

M. Harper

Project ID/Location:

Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Sample Number: BB62050

Page Number: 1

A CONTRACTOR OF THE CONTRACTOR					e Number:	1	
Parameter	Result	Det Limit	Units	Method	A = 17.54		(4)
Biochemical Oxygen Demand Oil & Grease Total Suspended Solids	27.6 ND 188	1.0 6.7 1.0	mg/L mg/L mg/L	405.1 1664A 160.2	JKS CNB MWS	12/24/03 12/22/03 12/26/03	09:20 16:00 14:00
Phenolic Compounds 4-Chloro-3-methylphenol 2-Chlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 4,6-Dinitro-2-methylphenol 2,4-Dinitrophenol 2-Nitrophenol 4-Nitrophenol Pentachlorophenol Phenol 2,4,6-Trichlorophenol	ND 0.010 ND ND	0.002 0.002 0.002 0.002 0.001 0.006 0.002 0.006 0.001 0.002	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	625 625 625 625 625 625 625 625 625 625	RLT RLT RLT RLT RLT RLT RLT RLT RLT RLT	12/23/03 12/23/03 12/23/03 12/23/03 12/23/03 12/23/03 12/23/03 12/23/03 12/23/03 12/23/03 12/23/03	15:43 15:43 15:43 15:43 15:43 15:43 15:43 15:43 15:43 15:43

ND = Not Detected

Quality Assurance/Quality Control

NELAP Accredited **'LELAP 04023**

235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 01/05/04

9/29/03

Date Sampled: Time Sampled:

10:00

Sampled by:

MH

Date Received:

12/29/03

Sample Number: BB62220

Page Number:

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand Oil & Grease Total Suspended Solids	15.3 ND 190	1.0 2.0 1.0	mg/L mg/L mg/L	405.1 1664A 160.2	JKS CNB MWS	12/31/03 12/31/03 12/31/03
Phenolic Compounds 4-Chloro-3-methylphenol 2-Chlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 4,6-Dinitro-2-methylphenol 2-4-Dinitrophenol 4-Nitrophenol Pentachlorophenol Phenol 2,4,6-Trichlorophenol	ND N	0.002 0.002 0.002 0.002 0.001 0.005 0.002 0.005 0.001	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	625 625 625 625 625 625 625 625 625	RLT RLT RLT RLT RLT RLT RLT RLT RLT	12/30/03 12/30/03 12/30/03 12/30/03 12/30/03 12/30/03 12/30/03 12/30/03 12/30/03

ND = Not Detected

Quality Assurance/Quality Control

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

To: Koppers Company

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 11/11/03

Date Sampled:

11/04/03

Time Sampled:

13:00

Sampled by:

13:00 MH

Date Received:

11/05/03

Sample Number: BB59521

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand Oil & Grease Total Suspended Solids	4 ND 23	1.0 2.0 1.0	mg/L mg/L mg/L	405.1 1664A 160.2	JKS JWH MWS	11/05/03 11/06/03 11/10/03
Phenolic Compounds 4-Chloro-3-methylphenol 2-Chlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 4,6-Dinitro-2-methylphenol 2,4-Dinitrophenol 2-Nitrophenol 4-Nitrophenol Pentachlorophenol Phenol 2,4,6-Trichlorophenol	ND	0.002 0.002 0.002 0.002 0.005 0.005 0.002 0.005 0.005 0.002	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	625 625 625 625 625 625 625 625 625 625	KRE KRE KRE KRE KRE KRE KRE KRE KRE	11/10/03 11/10/03 11/10/03 11/10/03 11/10/03 11/10/03 11/10/03 11/10/03 11/10/03 11/10/03

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

To: Koppers Company

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 11/20/03

Date Sampled: 11/12/03

Time Sampled: 13

11:30

Sampled by:

M. Harper

Date Received: 1

11/13/03

Sample Number: BB59845

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand Oil & Grease Total Suspended Solids	6 ND 15	1.0 6.7 1.0	mg/L mg/L mg/L	405.1 1664A 160.2	JKS CNB MWS	11/13/03 11/14/03 11/18/03
Phenolic Compounds 4-Chloro-3-methylphenol 2-Chlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 4,6-Dinitro-2-methylphenol 2,4-Dinitrophenol 2-Nitrophenol 4-Nitrophenol Pentachlorophenol Phenol 2,4,6-Trichlorophenol	ND N	0.002 0.002 0.002 0.002 0.001 0.005 0.002 0.005 0.001 0.002	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	625 625 625 625 625 625 625 625 625 625	RLT RLT RLT RLT RLT RLT RLT RLT RLT RLT	11/19/03 11/19/03 11/19/03 11/19/03 11/19/03 11/19/03 11/19/03 11/19/03 11/19/03 11/19/03

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.



NELAP Accredited LELAP 04023

235 Highpoint Drive Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Date Reported:

11/26/03

Date Received:

11/19/03

Date/Time Sampled:

11/18/03 13:00

Sampled by:

MH

Project ID/Location:

Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Sample Number: BB60160

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date	Time
Biochemical Oxygen Demand	13.4	1.0	mg/L	405.1	JKS	11/20/03	10.15
Oil & Grease	ND	6.7	mg/L	1664A	CNB		10:15
Total Suspended Solids	15	1.0	mg/L	160.2	MWS	11/20/03 11/20/03	16:05 17:30
Phenolic Compounds							
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	11/19/03	17:03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	11/19/03	
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	11/19/03	17:03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT		17:03
4,6-Dinitro-2-methylphenol	ND	0.001	mg/L	625	RLT	11/19/03	17:03
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	11/19/03	17:03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	11/19/03	17:03
1-Nitrophenol	ND	0.005	mg/L	625		11/19/03	17:03
Pentachlorophenol	0.019	0.001	_		RLT	11/19/03	17:03
Phenol	ND	0.002	mg/L	625	RLT	11/19/03	17:03
2,4,6-Trichlorophenol	ND	0.002	mg/L mg/L	625 625	RLT RLT	11/19/03 11/19/03	17:03 17:03

ND = Not Detected

Quality Assurance/Quality Control

ARGUS ANALYTICAL, INC.



235 Highpoint Drive Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 12/03/03

Date Sampled:

11/25/03

NELAP Accredited

LELAP 04023

Time Sampled: 14:00

Sampled by:

MH

Date Received:

11/26/03

Sample Number: BB60666

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	21.6	1.0	mg/L	405.1	JKS	11/26/02
Oil & Grease	ND	6.7	mg/L	1664A	CNB	11/26/03
Total Suspended Solids	23	1.0	mg/L	160.2	MWS	12/02/03 12/01/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	DIT	10/00/00
2-Chlorophenol	ND	0.002	mg/L	625	RLT	12/02/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	12/02/03
2,4-Dimethylphenol	ND	0.002			RLT	12/02/03
4,6-Dinitro-2-methylphenol	ND	0.002	mg/L	625 625	RLT	12/02/03
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	12/02/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	12/02/03
4-Nitrophenol	ND	0.002	mg/L	625	RLT	12/02/03
Pentachlorophenol	0.008		mg/L	625	RLT	12/02/03
Phenol	0.008 ND	0.001	mg/L	625	RLT	12/02/03
2,4,6-Trichlorophenol		0.002	mg/L	625	RLT	12/02/03
-, ·, · · · · · · · · · · · · · · · · ·	ND	0.002	mg/L	625	RLT	12/02/03

ND = Not Detected

Quality Assurance/Quality Control



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

To: Koppers Company

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 10/17/03

Date Sampled:

10/08/03

Time Sampled:

15:00

Sampled by:

MH

Date Received:

10/09/03

Sample Number: BB58178

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	5.6	1.0	mg/L	405.1	JKS	10/09/03
Oil & Grease	ND	2.0	mg/L	1664A	JWH	10/03/03
Total Suspended Solids	24	1.0	mg/L	160.2	MWS	10/14/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	10/16/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	10/16/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	10/16/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	10/16/03
4,6-Dinitro-2-methylphenol	ND	0.005	mg/L	625	RLT	10/16/03
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	10/16/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	10/16/03
4-Nitrophenol	ND	0.005	mg/L	625	RLT	10/16/03
Pentachlorophenol	ND	0.005	mg/L	625	RLT	
Phenol	ND	0.002	mg/L	625	RLT	10/16/03 10/16/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	10/16/03

ND = Not Detected

Quality Assurance/Quality Control

NELAP Accredited LELAP 04023

235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: **Facility Discharge**

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 10/22/03

Date Sampled:

10/14/03

Time Sampled:

Sampled by:

MH

Date Received:

10/15/03

Sample Number: BB58492

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	11.1	1.0	mg/L	405.1	JKS	10/15/03
Oil & Grease	ND	2.2	mg/L	1664A	JWH	10/13/03
Total Suspended Solids	23	1.0	mg/L	160.2	MWS	10/21/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	10/20/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	10/20/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	10/20/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	10/20/03
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	10/20/03
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	10/20/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	10/20/03
4-Nitrophenol	ND	0.006	mg/L	625	RLT	
Pentachlorophenol	ND	0.006	mg/L	625	RLT	10/20/03
Phenol	ND .	0.002	mg/L	625	RLT	10/20/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	10/20/03 10/20/03

ND = Not Detected

Quality Assurance/Quality Control



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 10/31/03

Date Sampled: 10/21/03

Time Sampled: 15:00

Sampled by: MH

Date Received: 10/22/03

Sample Number: BB58773

Page Number:

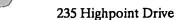
1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	5.4	1.0	mg/L	405.1	JKS	10/22/03
Oil & Grease	ND	2.0	mg/L	1664A	JWН	10/29/03
Total Suspended Solids	59	1.0	mg/L	160.2	MWS	10/24/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	JAR	10/27/03
2-Chlorophenol	ND	0.002	mg/L	625	JAR	10/27/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	JAR	10/27/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	JAR	10/27/03
4,6-Dinitro-2-methylphenol	ND	0.005	mg/L	625	JAR	10/27/03
2,4-Dinitrophenol	ND	0.005	mg/L	625	JAR	10/27/03
2-Nitrophenol	ND	0.002	mg/L	625	JAR	10/27/03
4-Nitrophenol	ND	0.005	mg/L	625	JAR	10/27/03
Pentachlorophenol	ND	0.005	mg/L	625	JAR	10/27/03
Phenol	ND	0.002	mg/L	625	JAR	10/27/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	JAR	10/27/03

ND = Not Detected

Quality Assurance Quality Control

B. G. Giessner, Ph.D.



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 11/04/03

Date Sampled: 10/28/03

Time Sampled: 14:00

Sampled by: MH

Date Received: 10/29/03

Sample Number: BB59139

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	8.4	1.0	mg/L	405.1	JKS	10/30/03
Oil & Grease	ND	2.0	mg/L	1664A	SMB	11/01/03
Total Suspended Solids	78	1.0	mg/L	160.2	MWS	11/03/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	KRE	11/03/03
2-Chlorophenol	ND	0.002	mg/L	625	KRE	11/03/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	KRE	11/03/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	KRE	11/03/03
4,6-Dinitro-2-methylphenol	ND	0.005	mg/L	625	KRE	11/03/03
2,4-Dinitrophenol	ND	0.005	mg/L	625	KRE	11/03/03
2-Nitrophenol	ND	0.002	mg/L	625	KRE	11/03/03
4-Nitrophenol	ND	0.005	mg/L	625	KRE	11/03/03
Pentachlorophenol	ND	0.005	mg/L	625	KRE	11/03/03
Phenol	ND	0.002	mg/L	625	KRE	11/03/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	KRE	11/03/0

ND = Not Detected

Quality Assurance/Quality Control



NELAP Accredited LELAP 04023

235 Highpoint Drive Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 09/11/03

Date Sampled:

09/02/03

Time Sampled:

13:00

Sampled by:

MH

09/03/03 **Date Received:**

Sample Number: BB56489

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	42	1.0	mg/L	405.1	JKS	09/03/03
Oil & Grease	ND 1	2.0	mg/L	1664A	JWH	09/09/03
Total Suspended Solids	43	1.0	mg/L	160.2	MWS	09/04/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	09/03/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	09/03/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	09/03/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	09/03/03
4,6-Dinitro-2-methylphenol	ND	0.005	mg/L	625	RLT	09/03/03
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	09/03/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	09/03/03
4-Nitrophenol	ND	0.005	mg/L	625	RLT	09/03/03
Pentachlorophenol	0.008	0.005	mg/L	625	RLT	09/03/03
Phenol	ND	0.002	mg/L	625	RLT	09/03/03
2,4,6-Trichlorophenol	" ND	0.002	mg/L	625	RLT	09/03/03

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 09/17/03

Date Sampled:

09/09/03

Time Sampled: 14:00

Sampled by: MH

Date Received:

09/10/03

Sample Number: BB56792

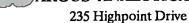
Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	9	1.0	mg/L	405.1	JKS	09/11/03
Oil & Grease	ND •	2.2	mg/L	1664A	JWH	09/16/03
Total Suspended Solids	13	1.0	mg/L	160.2	MWS	09/12/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	09/12/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	09/12/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	09/12/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	09/12/03
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	09/12/03
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	09/12/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	09/12/03
4-Nitrophenol	ND	0.006	mg/L	625	RLT	09/12/03
Pentachlorophenol	ND	0.006	mg/L	625	RLT	09/12/03
Phenol	ND	0.002	mg/L	625	RLT	09/12/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	09/12/03

ND = Not Detected

Quality Assurance/Quality Control



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Outfall 001 Sample Description:

Sample Matrix:

WATER

Project Number:

09/23/03 **Date Reported:**

Date Sampled:

09/16/03

Time Sampled: 15:50

Sampled by: MH

09/17/03 Date Received:

Sample Number: BB57129

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	7.2	1.0	mg/L	405.1	JKS	09/18/03
Oil & Grease	ND ¹	2.1	mg/L	1664 A	JWH	09/17/03
Total Suspended Solids	17	1.0	mg/L	160.2	AMB	09/18/03
Phenolic Compounds			•			
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	09/17/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	09/17/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	09/17/0
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	09/17/0
4,6-Dinitro-2-methylphenol	ND	0.005	mg/L	625	RLT	09/17/0
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	09/17/0
2-Nitrophenol	ND	0.002	mg/L	625	RLT	09/17/0
4-Nitrophenol	ND	0.005	mg/L	625	RLT	09/17/0
Pentachlorophenol	ND	0.005	mg/L	625	RLT	09/17/0
Phenol	ND	0.002	mg/L	625	RLT	09/17/0
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	09/17/0

ND = Not Detected

Quality Assurance/Quality Control



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 10/01/03

Date Sampled:

09/23/03

Time Sampled: 14:00 Sampled by:

MH

Date Received:

09/24/03

Sample Number: BB57430

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	10.2	1.0	mg/L	405.1	JKS	09/25/03
Oil & Grease	ND '	2.2	mg/L	1664A	JWH	09/29/03
Total Suspended Solids	14	1.0	mg/L	160.2	AMB	09/25/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	09/29/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	09/29/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	09/29/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	09/29/03
4,6-Dinitro-2-methylphenol	ND	0.005	mg/L	625	RLT	09/29/03
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	09/29/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	09/29/03
4-Nitrophenol	ND	0.005	mg/L	625	RLT	09/29/03
Pentachlorophenol	ND	0.005	mg/L	625	RLT	09/29/03
Phenol	ND a	0.002	mg/L	625	RLT	09/29/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	09/29/03

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.



NELAP Accredited **LELAP 04023**

235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

To:

Koppers Company

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Date Reported:

10/09/03

Date Received:

10/01/03

Date/Time Sampled:

09/30/03

Sampled by:

MH

Project Number:

Project ID/Location:

Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Sample Number: BB57794

Page Number:

1

14:00

Parameter	Result	Det Limit	Units	Method	Analysts	Date	Time
Biochemical Oxygen Demand	9.6	1.0	mg/L	405.1	JKS	10/01/03	06:15
Oil & Grease	ND	6.7	mg/L	1664A	JWH	10/08/03	10:00
Total Suspended Solids	13	1.0	mg/L	160.2	MWS	10/02/03	14:30
Phenolic Compounds	4			75			
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	10/01/03	17:11
2-Chlorophenol	ND	0.002	mg/L	625	RLT	10/01/03	17:11
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	10/01/03	17:11
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	10/01/03	17:11
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	10/01/03	17:11
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	10/01/03	17:11
2-Nitrophenol	ND	0.002	mg/L	625	RLT	10/01/03	17:11
4-Nitrophenol	ND	0.006	mg/L	625	RLT	10/01/03	17:11
Pentachlorophenol	ND	0.006	mg/L	625	RLT	10/01/03	17:11
Phenol	ND	0.002	mg/L	625	RLT	10/01/03	17:11
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	10/01/03	17:11

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

NELAP Accredited LELAP 04023

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Date Reported: 03/12/03

Date Sampled:

03/04/03

03/05/03

Time Sampled:

Date Received:

14:00

Sampled by:

MH

Project ID/Location:

Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Sample Number: BB46466

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	4.2	1.0	mg/L	405.1	JKS	03/05/03
Oil & Grease	ND	2.1	mg/L	1664A	SMB	03/11/03
Total Suspended Solids	40	1.0	mg/L	160.2	BB	03/05/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	03/07/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	03/07/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	03/07/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	03/07/03
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	03/07/03
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	03/07/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	03/07/03
4-Nitrophenol	ND	0.006	mg/L	625	RLT	03/07/03
Pentachlorophenol	ND	0.006	mg/L	625	RLT	03/07/03
Phenol	ND	0.002	mg/L	625	RLT	03/07/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	03/07/03

ND = Not Detected

Quality Assurance/Quality Control

ARGUS ANALYTICAL, INC.

235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 03/18/03

Date Sampled:

03/11/03

Time Sampled:

13:00

Sampled by:

MH

Date Received:

03/12/03

Sample Number: BB46879

1

Page Number:

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	3.6	1.0	mg/L	405.1	JKS	03/12/03
Oil & Grease	ND	6.7	mg/L	1664A	SMB	03/17/03
Total Suspended Solids	13	1.0	mg/L	160.2	BB	03/14/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	03/12/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	03/12/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	03/12/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	03/12/03
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	03/12/03
2,4-Dinitrophenol	ND .	0.006	mg/L	625	RLT	03/12/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	03/12/03
4-Nitrophenol	ND	0.006	mg/L	625	RLT	03/12/03
Pentachlorophenol	ND	0.006	mg/L	625	RLT	03/12/03
Phenol	ND	0.002	mg/L	625	RLT	03/12/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	03/12/03

ND = Not Detected

Quality Assurance/Quality Control

NELAP Accredited LELAP 04023

235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 03/25/03

Date Sampled:

03/18/03

Time Sampled:

14:00

Sampled by:

MH

Date Received:

03/19/03

Sample Number: BB47261

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	3.6	1.0	mg/L	405.1	JKS	03/19/03
Oil & Grease	ND	6.7	mg/L	1664A	SMB	03/20/03
Total Suspended Solids	16	1.0	mg/L	160.2	BB	03/19/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	03/21/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	03/21/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	03/21/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	03/21/03
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	03/21/03
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	03/21/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	03/21/03
4-Nitrophenol	ND	0.006	mg/L	625	RLT	03/21/03
Pentachlorophenol	ND	0.006	mg/L	625	RLT	03/21/03
Phenol	ND	0.002	mg/L	625	RLT	03/21/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	03/21/03

ND = Not Detected

Quality Assurance/Quality Control

ARGUS ANALYTICAL, INC.

235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Date Reported:

04/02/03

Date Sampled:

03/25/03 13:30

Time Sampled:

Sampled by:

MH

Project ID/Location:

Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Received:

03/26/03

Sample Number: BB47675

1

Page Number:

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	4.8	1.0	mg/L	405.1	JKS	03/27/03
Oil & Grease	ND	6.7	mg/L	1664A	SMB	04/01/03
Total Suspended Solids	17	1.0	mg/L	160.2	BB	03/26/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	03/31/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	03/31/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	03/31/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	03/31/03
4,6-Dinitro-2-methylphenol	ND	0.005	mg/L	625	RLT	03/31/03
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	03/31/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	03/31/03
4-Nitrophenol	ND	0.005	mg/L	625	RLT	03/31/03
Pentachlorophenol	ND	0.005	mg/L	625	RLT	03/31/03
Phenol	ND	0.002	mg/L	625	RLT	03/31/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	03/31/03

ND = Not Detected

Quality Assurance/Quality Control



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

To: Koppers Company

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 02/11/03

•

Date Sampled: #02/04/03 Time Sampled: 13:00

Sampled by:

M. Harper

Date Received:

02/05/03

Sample Number: BB45028

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	8	1.0	mg/L	405.1	JKS	02/06/03
Oil & Grease	ND	2.1	mg/L	1664A	SMB	02/10/03
Total Suspended Solids	36	1.0	mg/L	160.2	BB	02/05/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	02/07/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	02/07/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	02/07/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	02/07/03
4,6-Dinitro-2-methylphenol	ND	0.005	mg/L	625	RLT	02/07/03
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	02/07/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	02/07/03
4-Nitrophenol	ND	0.005	mg/L	625	RLT	02/07/03
Pentachlorophenol	· ND	0.005	mg/L	625	RLT	02/07/03
Phenol	ND	0.002	mg/L	625	RLT	02/07/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	02/07/03

ND = Not Detected

Quality Assurance/Quality Control

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description: Outfall 001

Sample Matrix: WATER

Project Number:

Date Reported: 02/21/03

Date Sampled: 02/12/03 Time Sampled: 13:00

Sampled by:

MH

Date Received:

02/13/03

NELAP Accredited

LELAP 04023

Sample Number: BB45500

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	9	1.0	mg/L	405.1	JKS	02/13/03
Oil & Grease	ND	2.1	mg/L	1664A	SMB	02/19/03
Total Suspended Solids	107	1.0	mg/L	160.2	BB	02/14/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	02/17/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	02/17/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	02/17/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	02/17/03
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	02/17/03
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	02/17/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	02/17/03
4-Nitrophenol	ND	0.006	mg/L	625	RLT	02/17/03
Pentachlorophenol	ND	0.006	mg/L	625	RLT	02/17/03
Phenol	ND	0.002	mg/L	625	RLT	02/17/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	02/17/03

ND = Not Detected

Quality Assurance/Quality Control

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge Project ID/Location:

Weekly Requirements

Sample Description: Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported:

02/26/03

NELAP Accredited

LELAP 04023

Date Sampled:

02/18/03

Time Sampled:

14:00

Sampled by:

MH

Date Received:

02/19/03

Sample Number: BB45797

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	9.6	1.0	mg/L	405.1	JKS	02/20/03
Total Suspended Solids	51	1.0	mg/L	160.2	BB	02/19/03
Oil & Grease	ND	2.0	mg/L	1664A	SMB	02/21/03

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.

NELAP Accredited **LELAP 04023**

235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Resample

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 02/26/03

Date Sampled:

02/21/03

Time Sampled:

11:00

Sampled by:

MH

Date Received:

02/25/03

Sample Number: BB46085

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	02/25/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	02/25/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	02/25/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	02/25/03
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	02/25/03
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	02/25/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	02/25/03
4-Nitrophenol	ND	0.006	mg/L	625	RLT	02/25/03
Pentachlorophenol	ND	0.006	mg/L	625	RLT	02/25/03
Phenol	ND	0.002	mg/L	625	RLT	02/25/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	02/25/03

ND = Not Detected

Quality Assurance/Quality Control

NELAP Accredited

LELAP 04023

ARGUS ANALYTICAL, INC.

235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

To: Koppers Company

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported:

03/04/03

Date Sampled:

02/25/03 15:00

Time Sampled: Sampled by:

MH

Date Received:

02/26/03

Sample Number: BB46173

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	9	1.0	mg/L	405.1	JKS	02/27/03
Oil & Grease	ND	2.2	mg/L	1664A	SMB	02/28/03
Total Suspended Solids	31	1.0	mg/L	160.2	BB	02/26/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	02/28/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	02/28/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	02/28/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	02/28/03
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	02/28/03
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	02/28/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	02/28/03
4-Nitrophenol	ND	0.006	mg/L	625	RLT	02/28/03
Pentachlorophenol	ND	0.006	mg/L	625	RLT	02/28/03
Phenol	ND	0.002	mg/L	625	RLT	02/28/0
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	02/28/0

ND = Not Detected

Quality Assurance/Quality Control



235 Highpoint Drive Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 01/14/03

Date Sampled: ==01/07/03 Time Sampled:

14:00

Sampled by:

MH

Date Received: 01/08/03

Sample Number: BB43636

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	12.8	1.0	mg/L	405.1	JKS	01/09/03
Oil & Grease	ND	2.1	mg/L	1664A	SMB	01/09/03
Total Suspended Solids	67	1.0	mg/L	160.2	PAW	01/09/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.011	mg/L	625	RLT	01/08/03
2-Chlorophenol	ND	0.011	mg/L	625	RLT	01/08/03
2,4-Dichlorophenol	ND	0.011	mg/L	625	RLT	01/08/03
2,4-Dimethylphenol	ND	0.011	mg/L	625	RLT	01/08/03
4,6-Dinitro-2-methylphenol	ND	0.027	mg/L	625	RLT	01/08/03
2,4-Dinitrophenol	ND	0.027	mg/L	625	RLT	01/08/03
2-Nitrophenol	ND	0.011	mg/L	625	RLT	01/08/03
4-Nitrophenol	ND	0.027	mg/L	625	RLT	01/08/03
Pentachlorophenol	0.565	0.027	mg/L	625	RLT	01/08/03
Phenol	ND	0.011	mg/L	625	RLT	01/08/03
2,4,6-Trichlorophenol	ND	0.011	mg/L	625	RLT	01/08/03

ND = Not Detected

Quality Assurance/Quality Control



235 Highpoint Drive Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location:

Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 01/24/03

Date Sampled:

01/16/03 14:00

Time Sampled: Sampled by:

M. Harper

Date Received:

01/17/03

Sample Number: BB44073

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	7.8	1.0	mg/L	405.1	JKS	01/17/03
Oil & Grease	ND	6.7	mg/L	1664A	SMB	01/22/03
Total Suspended Solids	50	1.0	mg/L	160.2	BB	01/20/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	01/20/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	01/20/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	01/20/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	01/20/03
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	01/20/03
2,4-Dinitrophenol	ND -	0.006	mg/L	625	RLT	01/20/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	01/20/03
4-Nitrophenol	ND	0.006	mg/L	625	RLT	01/20/03
Pentachlorophenol	ND	0.006	mg/L	625	RLT	01/20/03
Phenol	ND	0.002	mg/L	625	RLT	01/20/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	01/20/03

ND = Not Detected

Quality Assurance/Quality Control



235 Highpoint Drive Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 02/03/03

Date Sampled: 01/24/03 Time Sampled:

15:50

Sampled by: MH

Date Received:

01/27/03

Sample Number: BB44502

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Oil & Grease	ND	2.2	mg/L	1664A	SMB	01/31/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	01/28/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	01/28/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	01/28/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	01/28/03
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	01/28/03
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	01/28/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	-
4-Nitrophenol	ND	0.006	mg/L	625	RLT	01/28/03
Pentachlorophenol	ND	0.006	mg/L	625	RLT	01/28/03
Phenol	ND	0.002	mg/L	625	RLT	01/28/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	01/28/03 01/28/03

ND = Not Detected

Quality Assurance/Quality Control

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported:

02/17/03

NELAP accredited

LELAP 04023

Date Sampled: -01/30/03

Time Sampled:

14:50

Sampled by:

MH

Date Received:

01/30/03

Sample Number: BB44769

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	8.4	1.0	mg/L	405.1	JKS	01/31/03
Oil & Grease	ND	2.1	mg/L	1664A	SMB	02/04/03
Total Suspended Solids	47	1.0	mg/L	160.2	BB	02/10/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	02/06/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	02/06/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	02/06/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	02/06/03
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	02/06/03
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	02/06/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	02/06/03
4-Nitrophenol	ND	0.006	mg/L	625	RLT	02/06/03
Pentachlorophenol	ND	0.006	mg/L	625	RLT	02/06/03
Phenol	ND	0.002	mg/L	625	RLT	02/06/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	02/06/03

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location:

Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported:

12/10/02

NELAP Accredited LELAP 04023

Date Sampled:

Time Sampled:

12/03/02 11:00

Sampled by:

MH

Date Received:

12/04/02

Sample Number: BB41967

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	4.6	1.0	mg/L	405.1	JKS	12/05/02
Oil & Grease	ND	2.0	mg/L	1664A	SMB	12/05/02
Total Suspended Solids	30	1.0	mg/L	160.2	BB	12/05/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	12/06/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	12/06/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	12/06/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	12/06/02
4,6-Dinitro-2-methylphenol	ND	0.005	mg/L	625	RLT	12/06/02
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	12/06/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	12/06/02
4-Nitrophenol	ND	0.005	mg/L	625	RLT	12/06/02
Pentachlorophenol	ND	0.005	mg/L	625	RLT	12/06/02
Phenol	ND	0.002	mg/L	625	RLT	12/06/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	12/06/02

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.

argsmpr1

235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Date Reported:

12/17/02

Date Sampled:

12/10/02

Time Sampled:

13:00

Sampled by:

MH

Project ID/Location:

Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Received:

12/11/02

Sample Number: BB42464

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	5.1	1.0	mg/L	405.1	JKS	12/12/02
Oil & Grease	ND	6.7	mg/L	1664A	SMB	12/16/02
Total Suspended Solids	35	1.0	mg/L	160.2	BB	12/11/02
Phenolic Compounds			E			
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	JAR	12/13/02
2-Chlorophenol	ND	0.002 -	mg/L	625	JAR	12/13/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	JAR	12/13/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	JAR	12/13/02
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	JAR	12/13/02
2,4-Dinitrophenol	ND	0.006	mg/L	625	JAR	12/13/02
2-Nitrophenol	ND	0.002	mg/L	625	JAR	12/13/02
4-Nitrophenol	ND	0.006	mg/L	625	JAR	12/13/02
Pentachlorophenol	ND	0.006	mg/L	625	JAR	12/13/02
Phenol	ND	0.002	mg/L	625	JAR	12/13/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	JAR	12/13/02

ND = Not Detected

Quality Assurance/Quality Control



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 12/24/02

Date Sampled:

12/17/02

Time Sampled:

13:00

Sampled by:

MH

Date Received:

12/18/02

Sample Number: BB42840

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	4	1.0	mg/L	405.1	JKS	12/19/02
Oil & Grease	ND	2.3	mg/L	1664A	SMB	12/23/02
Total Suspended Solids	29	1.0	mg/L	160.2	BB	12/19/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	12/23/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	12/23/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	12/23/02
2,4-Dimethylphenol	ND :	0.002	mg/L	625	RLT	12/23/02
4,6-Dinitro-2-methylphenol	· ND	0.005	mg/L	625	RLT	12/23/02
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	12/23/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	12/23/02
4-Nitrophenol	ND	0.005	mg/L	625	RLT	12/23/02
Pentachlorophenol	ND	0.005	mg/L	625	RLT	12/23/02
Phenol	ND	0.002	mg/L	625	RLT	12/23/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	12/23/02

ND = Not Detected

Quality Assurance/Quality Control

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 01/03/03

Date Sampled:

12/24/02

Time Sampled:

10:30

Sampled by:

M. Harper

Date Received:

12/27/02

Sample Number: BB43219

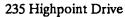
Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Total Suspended Solids	24	1.0	mg/L	160.2	BB	12/30/02
Oil & Grease + BOD Expired	ND	6.7	mg/L	1664A	SMB	01/02/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	12/31/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	12/31/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	12/31/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	12/31/02
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	12/31/02
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	12/31/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT *	12/31/02
4-Nitrophenol	ND	0.006	mg/L	625	RLT	12/31/02
Pentachlorophenol	ND	0.006	mg/L	625	RLT	12/31/02
Phenol	ND	0.002	mg/L	625	RLT	12/31/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	12/31/02

ND = Not Detected

Quality Assurance/Quality Control



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location:

Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 01/13/03

Date Sampled: 12/31/02 Time Sampled:

12:00

Sampled by:

M. Harper

Date Received:

12/31/02

Sample Number: BB43317

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	5.7	1.0	mg/L	405.1	JKS	01/02/03
Oil & Grease	ND	2.1	mg/L	1664A	SMB	01/02/03
Total Suspended Solids	41	1.0	mg/L	160.2	MWS	01/02/03
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	01/03/03
2-Chlorophenol	ND	0.002	mg/L	625	RLT	01/03/03
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	01/03/03
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	01/03/03
4,6-Dinitro-2-methylphenol	ND	0.005	mg/L	625	RLT	01/03/03
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	01/03/03
2-Nitrophenol	ND	0.002	mg/L	625	RLT	01/03/03
4-Nitrophenol	ND	0.005	mg/L	625	RLT	01/03/03
Pentachlorophenol	ND	0.005	mg/L	625	RLT	01/03/03
Phenol	ND	0.002	mg/L	625	RLT	01/03/03
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	01/03/03

ND = Not Detected

Quality Assurance/Quality Control

Telephone: (601) 226-4584 FAX: (601) 226-4588

December 30, 2002

Mr. David Lee

Mississippi Department of Environmental Quality Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Certified Mail 7099 3400 0002 5201 1083

Subject:

Koppers Industries, Inc.

Grenada Plant-POTW Permit # MSP090300

Notification of permit exceedence

Dear Mr. Lee

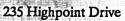
This letter is to notify you of an exceedence of Koppers Industries Inc. POTW permit # MSP090300. On December 24, 2002 we discharged to the City of Grenada 37,500 gallons. This amount exceeded our permit limit by 2,500 gallons. Due to our pump losing prime from the discharge tank we had approximately 10,000 gallons carry over from the previous day. The operator reduced the system, however the permitted limit was still exceeded. We are now in the process of installing an automatic shut off so that a desired volume can be pre-set and the system will shut down when that volume has been reached. I left a voice mail message to your office on December 25, 2002 around 10:45 a.m. concerning this matter. If you have any questions please call (662) 226-4585 ext. 40

Sincerely,

Haley P. Biddy

Environmental Supervisor

CC. Clovis Tilghman, City of Grenada-WWTP
Tim Basilone, Koppers Pittsburgh



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description: Outfall 001

Sample Matrix: WATER

Project Number:

Date Reported: 11/14/02

Date Sampled: 11/06/02

Time Sampled: 14:00

Sampled by: M. Harper

Date Received: 11/07/02

Sample Number: BB40482

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	4.44	1.0	mg/L	405.1	JKS	11/07/02
Oil & Grease	ND	2.1	mg/L	1664A	SMB	11/13/02
Total Suspended Solids	37	1.0	mg/L	160.2	BB	11/08/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	11/07/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	11/07/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	11/07/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	11/07/02
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	11/07/02
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	11/07/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	11/07/02
4-Nitrophenol	ND	0.006	mg/L	625	RLT	11/07/02
Pentachlorophenol	0.018	0.006	mg/L	625	RLT	11/07/02
Phenol	ND	0.002	mg/L	625	RLT	11/07/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	11/07/02

ND = Not Detected

Quality Assurance/Quality Control

5. Highpoint Drive

Ridgeland, Mississippi #39157

Telephone: 601/957-2

FAX: 601/957-1887

Koppers Company To: 1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Date Reported:

11/12/02 Date Sampled:

11/19/02

NELAP Accredited

LELAP 04023

Time Sampled: 10:00 Sampled by: M. Harper

Project ID/Location: Facility Discharge

Weekly Requirements

Date Received: 11/13/02

Sample Description:

Outfall 001

Sample Number: BB40781

Sample Matrix:

WATER

Project Number:

Page Number:

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	6.2	1.0	mg/L	405.1	JKS	11/14/02
Oil & Grease	ND	2.1	mg/L	1664A	SMB	11/18/02
Total Suspended Solids	39	1.0	mg/L	160.2	BB	11/14/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	11/14/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	11/14/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	11/14/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	11/14/02
4,6-Dinitro-2-methylphenol	ND	0.005	mg/L	625	RLT	11/14/02
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	11/14/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	11/14/02
4-Nitrophenol	ND	0.005	mg/L	625	RLT	11/14/02
Pentachlorophenol	0.011	0.005	mg/L	625	RLT	11/14/02
Phenol 5	ND	0.002	mg/L	625	RLT	11/14/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	11/14/02

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.

argsmpr1

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 11/26/02

Date Sampled: 41/19/02**

Time Sampled: 11:00

Sampled by:

MH

1

Date Received:

11/20/02

LELAP 04023

Sample Number: BB41286

Page Number:

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	2.7	1.0	mg/L	405.1	JKS	11/21/02
Oil & Grease	ND	2.0	mg/L	1664A	SMB	11/25/02
Total Suspended Solids	31	1.0	mg/L	160.2	BB	11/21/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	11/21/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	11/21/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	11/21/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	11/21/02
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	11/21/02
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	11/21/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	11/21/02
4-Nitrophenol	ND	0.006	mg/L	625	RLT	11/21/02
Pentachlorophenol	ND	0.006	mg/L	625	RLT	11/21/02
Phenol	ND	0.002	mg/L	625	RLT	11/21/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	11/21/02
			_			

ND = Not Detected

Quality Assurance/Quality Control

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description: Outfall 001

Sample Matrix:

Project ID/Location:

WATER

Project Number:

Date Reported:

12/04/02

NELAP Accredited

LELAP 04023

Date Sampled:

1725/02

Time Sampled:

12:00

Sampled by:

MH

Date Received:

11/27/02

Sample Number: BB41724

1

Page Number:

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	4	1.0	mg/L	405.1	JKS	11/27/02
Oil & Grease	ND	2.0	mg/L	1664A	SMB	12/03/02
Total Suspended Solids	41	1.0	mg/L	160.2	BB	12/02/02
Phenolic Compounds						2
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	11/27/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	11/27/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	11/27/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	11/27/02
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	11/27/02
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	11/27/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	11/27/02
4-Nitrophenol	ND	0.006	mg/L	625	RLT	11/27/02
Pentachlorophenol	ND	0.006	mg/L	625	RLT	11/27/02
Phenol	ND	0.002	mg/L	625	RLT	11/27/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	11/27/02

ND = Not Detected

Quality Assurance/Quality Control



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 10/10/02

Date Sampled: Time Sampled:

10/01/02 11:00

Sampled by:

MH

Date Received:

10/02/02

Sample Number: BB38685

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	3.4	1.0	mg/L	405.1	JKS	10/03/02
Oil & Grease	ND	2.1	mg/L	1664A	SMB	10/09/02
Total Suspended Solids	52	1.0	mg/L	160.2	AMB	10/09/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	10/03/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	10/03/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	10/03/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	10/03/02
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	10/03/02
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	10/03/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	10/03/02
4-Nitrophenol	ND	0.006	mg/L	625	RLT	10/03/02
Pentachlorophenol	ND	0.006	mg/L	625	RLT	10/03/02
Phenol	ND	0.002	mg/L	625	RLT	10/03/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	10/03/02

ND = Not Detected

Quality Assurance/Quality Control

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 10/14/02

10/07/02

Date Sampled: Time Sampled:

14:30

Sampled by:

MH

Date Received:

10/08/02

Sample Number: BB38973

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	2.2	1.0	mg/L	405.1	MWS	10/09/02
Oil & Grease	ND	2.1	mg/L	1664A	SMB	10/03/02
Total Suspended Solids	37	1.0	mg/L	160.2	BB	10/11/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	10/09/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	10/09/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	10/09/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	10/09/02
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	10/09/02
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	10/09/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	10/09/02
4-Nitrophenol	ND	0.006	mg/L	625	RLT	10/09/02
Pentachlorophenol	ND	0.006	mg/L	625	RLT	10/09/02
Phenol	ND	0.002	mg/L	625	RLT	10/09/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	10/09/02

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.

argsmpr1

235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

To: Koppers Company

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Date Sampled:

10/15/02

10/22/02

Time Sampled:

Date Reported:

13:30

Sampled by:

MH

Project ID/Location:

Facility Discharge

Weekly Requirements

Date Received:

10/16/02

Sample Description:

Outfall 001

Sample Number: BB39386

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Sample Matrix: Project Number:

2,4,6-Trichlorophenol

WATER

Page Number:

1

625

mg/L

RLT

10/16/02

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	4.2	1.0	mg/L	405.1	JKS	10/16/02
Oil & Grease	ND	2.1	mg/L	1664 A	SMB	10/21/02
Total Suspended Solids	40	1.0	mg/L	160.2	LRD	10/17/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	10/16/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	10/16/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	10/16/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	10/16/02
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	10/16/02
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	10/16/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	10/16/02
4-Nitrophenol	ND	0.006	mg/L	625	RLT	10/16/02
Pentachlorophenol	0.006	0.006	mg/L	625	RLT	10/16/02
Phenol	ND	0.002	mg/L	625	RLT	10/16/02

0.002

ND

ND = Not Detected

Quality Assurance/Quality Control

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

10/29/02 **Date Reported:**

Date Sampled:

10/22/02

Time Sampled:

14:00

Sampled by:

M. Harper

Date Received:

10/23/02

Sample Number: BB39771

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	6.6	1.0	mg/L	405.1	JKS	10/24/02
Oil & Grease	ND	2.2	mg/L	1664A	SMB	10/29/02
Total Suspended Solids	26	1.0	mg/L	160.2	BB	10/24/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	10/24/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	10/24/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	10/24/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	10/24/02
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	10/24/02
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	10/24/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	10/24/02
4-Nitrophenol	ND	0.006	mg/L	625	RLT	10/24/02
Pentachlorophenol	0.009	0.006	mg/L	625	RLT	10/24/02
Phenol	ND	0.002	mg/L	625	RLT	10/24/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	10/24/02

ND = Not Detected

Quality Assurance/Quality Control

235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported:

11/07/02

Date Sampled:

10/31/02

Time Sampled:

10:00

Sampled by:

MH

Date Received:

11/01/02

Sample Number: BB40219

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	5.16	1.0	mg/L	405.1	JKS	11/01/02
Oil & Grease	ND	2.2	mg/L	1664A	SMB	11/07/02
Total Suspended Solids	44	1.0	mg/L	160.2	BB	11/04/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	11/01/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	11/01/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	11/01/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	11/01/02
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	11/01/02
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	11/01/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	11/01/02
4-Nitrophenol	ND	0.006	mg/L	625	RLT	11/01/02
Pentachlorophenol	0.015	0.006	mg/L	625	RLT	11/01/02
Phenol	ND	0.002	mg/L	625	RLT	11/01/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	11/01/02

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.

argsmpr1



235 Highpoint Drive Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

NELAP Accredited **LELAP 04023**

09/23/02

Date Sampled:

Date Reported:

09/17/02

Time Sampled:

13:30

Sampled by:

M. Harper

Project ID/Location:

To:

Koppers Company

ATTN: Haley Biddy

1 Koppers Drive Tie Plant, MS 38960

Facility Discharge

Bi-Annual Requirements

Date Received:

09/18/02

Sample Description:

Outfall 001

Sample Number: BB37966

Project Number:

Sample Matrix: WATER

Parameter	Result	Det Limit	Units	Method	Analysts	Date	Time
Copper	ND	0.010	mg/L	200.7	втн	09/20/02	19:46
Chromium	ND	0.05	mg/L	200.7	BTH	09/20/02	19:47
Arsenic	₁₁ ND	0.05	mg/L	200.7	BTH	09/20/02	19:47
Nickel	0.06	0.02	mg/L	200.7	BTH	09/20/02	19:44
Zinc	0.217	0.025	mg/L	200.7	BTH	09/20/02	19:44

ND = Not Detected

Quality Assurance/Quality Control





235 Highpoint Drive Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

To:

Koppers Company

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Anthony Mayhan

Project ID/Location:

Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Project Number:

01/17/01 Date Reported:

Date Sampled:

01/09/01

Time Sampled:

13:00

Sampled by:

M. Harper

Date Received:

01/10/01

Sample Number: BB00710

Sample Matrix: WATER

Parameter	Result	Det Limit	Units	Method	Analysts	Date	Time
Biochemical Oxygen Demand	40.5	1.0	mg/L	405.1	KWC	01/11/01	07:47
Total Suspended Solids	225	5.0	mg/L	160.2	KWC	01/15/01	10:25
Phenolics, Total	0.07	0.05	mg/L	420.1	AMB	01/15/01	09:30
Oil & Grease	ND	8.0	mg/L	1664	SMB	01/12/01	12:00
Pentachlorophenol	7.11	0.500	mg/L	625	RLT	01/11/01	10:06

Disreguerd this #, the current penta level is on the other page

ND = Not Detected

Quality Assurance/Quality Copyrol

B. G. Giessner, Ph.D.

argusndt



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 09/11/02

Date Sampled: Time Sampled: 09/03/02 12:00

Sampled by:

MH

Date Received:

09/04/02

Sample Number: BB37136

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	4	1.0	mg/L	405.1	JKS	09/05/02
Oil & Grease	ND	2.0	mg/L	1664A	SMB	09/06/02
Total Suspended Solids	8	1.0	mg/L	160.2	BB	09/04/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	09/05/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	09/05/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	09/05/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	09/05/02
4,6-Dinitro-2-methylphenol	ND	0.005	mg/L	625	RLT	09/05/02
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	09/05/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	09/05/02
4-Nitrophenol	ND	0.005	mg/L	625	RLT	09/05/02
Pentachlorophenol	ND	0.005	mg/L	625	RLT	09/05/02
Phenol	ND	0.002	mg/L	625	RLT	09/05/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	09/05/02

ND = Not Detected

Quality Assurance/Quality Control

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 09/18/02

09/10/02

Date Sampled: Time Sampled:

13:30

Sampled by:

MH

09/11/02 Date Received:

Sample Number: BB37483

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	4.2	1.0	mg/L	405.1	JKS	09/12/02
Oil & Grease	ND	2.1	mg/L	1664A	SMB	09/17/02
Total Suspended Solids	36	1.0	mg/L	160.2	BB	09/13/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	09/12/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	09/12/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	09/12/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	09/12/02
4,6-Dinitro-2-methylphenol	ND	0.005	mg/L	625	RLT	09/12/02
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	09/12/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	09/12/02
4-Nitrophenol	ND	0.005	mg/L	625	RLT	09/12/02
Pentachlorophenol	ND	0.005	mg/L	625	RLT	09/12/02
Phenol	ND	0.002	mg/L	625	RLT	09/12/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	09/12/02

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.

argsmpr1

NELAP Accredited **LELAP 04023**



Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 09/23/02

Date Sampled:

09/17/02 Time Sampled: 13:30

Sampled by:

M. Harper

Date Received: 09/18/02

Sample Number: BB37965

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	1.5	1.0	mg/L	405.1	JKS	09/18/02
Oil & Grease	ND	2.1	mg/L	1664A	SMB	09/18/02
Total Suspended Solids	14	1.0	mg/L	160.2	BB	09/19/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	09/20/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	09/20/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	09/20/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	09/20/02
4,6-Dinitro-2-methylphenol	ND	0.005	mg/L	625	RLT	09/20/02
2,4-Dinitrophenol	ND	0.005	mg/L	625	RLT	09/20/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	09/20/02
4-Nitrophenol	ND	0.005	mg/L	625	RLT	09/20/02
Pentachlorophenol	ND	0.005	mg/L	625	RLT	09/20/02
Phenol	ND	0.002	mg/L	625	RLT	09/20/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	09/20/02

ND = Not Detected

Quality Assurance/Quality Control

235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

To: Koppers Company

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Haley Biddy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 10/01/02

Date Sampled:

09/24/02

Time Sampled:

14:00

Sampled by: MH

Date Received: 09/25/02

Sample Number: BB38304

Page Number:

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	1.4	1.0	mg/L	405.1	JKS	09/25/02
Oil & Grease	ND	2.0	mg/L	1664A	SMB	09/23/02
Total Suspended Solids	16	1.0	mg/L	160.2	AMB	09/30/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	09/25/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	-
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	09/25/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	09/25/02
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	09/25/02
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	09/25/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	09/25/02
4-Nitrophenol	ND	0.002	mg/L	625		09/25/02
Pentachlorophenol	0.007	0.006	mg/L mg/L	625	RLT	09/25/02
Phenol	ND	0.002			RLT	09/25/02
2,4,6-Trichlorophenol	ND	0.002	mg/L mg/L	625 625	RLT RLT	09/25/02 09/25/02

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.

argsmpr1



235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

NELAP Accredited LELAP 04023

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Steve Joy

01/28/02 Date Reported:

Date Sampled:

01/22/02

Time Sampled:

10:00

Sampled by:

MII

Project ID/Location:

Special Analysis

Date Received:

01/23/02

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Sample Number: BB23843

Page Number:

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	PENDING		mg/l.	405.1		
Oil & Grease	ND	6.7	mg/L	1664A	JRW	01/24/02
Total Suspended Solids	PENDING	•	mg/L	160.2		
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RI.T	01/23/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	01/23/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	01/23/02
2,4-Dimethylphenol	ND	0.002	mg/l.	625	RI.1	01/23/02
4,6-Dinitro-2-methylphenol	ND	0.006	ing/L	625	RLT	01/23/02
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	01/23/02
2-Nitrophenol	ND	0.002	mg/l.	625	RUY	01/23/02
4-Nitrophenol	ND	0.006	mg/L	625	RLT	01/23/02
Pentachlorophenol	0.163	0.006	mg/L	625	RLT	01/23/02
Phenol	ND	0.002	nig/L	625	RLT	01/23/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	01/23/02

235 Highpoint Drive Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

To: Koppers Company

1 Koppers Drive Tie Plant, MS 38960

ATTN: Steve Joy

Project ID/Location: Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported:

01/03/02

NELAP Accredited

LELAP 04023

Date Sampled:

12/19/01

Time Sampled:

10:00

Sampled by:

M. Harper

Date Received:

12/20/01

Sample Number: BB21847

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	102	1.0	mg/L	405.1	MWS	12/21/01
Oil & Grease	10.3	6.7	mg/L	1664A	SMB	12/28/01
Total Suspended Solids	2	1.0	mg/L	160.2	BB	12/26/01
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.210	mg/L	625	RLT	12/31/01
2-Chlorophenol	ND	0.210	mg/L	625	RLT	12/31/01
2,4-Dichlorophenol	ND	0.210	mg/L	625	RLT	12/31/01
2,4-Dimethylphenol	ND	0.210	mg/L	625	RLT	12/31/01
4,6-Dinitro-2-methylphenol	ND	0.525	mg/L	625	RLT	12/31/01
2,4-Dinitrophenol	ND	0.525	mg/L	625	RLT	12/31/01
2-Nitrophenol	ND	0.210	mg/L	625	RLT	12/31/01
4-Nitrophenol	ND	0.525	mg/L	625	RLT	12/31/01
Pentachlorophenol	0.919	0.525	mg/L	625	RLT	12/31/01
Phenol	ND	0.210	mg/L	625	RLT	12/31/01
2,4,6-Trichlorophenol	ND	0.210	mg/L	625	RLT	12/31/01

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.

rigsmpr1

235 Highpoint Drive Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

NELAP Accredited LELAP 04023

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Steve Joy

Date Reported:

01/07/02

Date Sampled: Time Sampled:

10:00

12/26/01

Sampled by:

MH

Project ID/Location:

Facility Discharge

Weekly Requirements

Date Received:

12/27/01

Sample Description:

Outfall 001

Sample Number: BB22111

Sample Matrix:

WATER

Project Number:

Page Number:

Result	Det Limit	Units	Method	Analysts	Date
37.5	1.0	mg/L	405.1	MWS	12/28/01
36	1.0	•	160.2	MLO	12/31/01
PENDING		_	1664A		
ND	0.042	_	625	RLT	12/31/01
מא	0.042	mg/L	625	RLT	12/31/01
ND	0.042	mg/L	625	RLT	12/31/01
ND	0.042	mg/L	625	RLT	12/31/01
ND	0.105	mg/L	625	RLT	12/31/01
ND	0.105	mg/L	625	RLT	12/31/01
ND	0.042	mg/l.	625	RLT	12/31/01
ND	0.105	•	625	RLT	12/31/01
2.54	0.105	_	625	RLT	12/31/01
ND	0.042	•	625	RLT	12/31/01
ND	0.042	mg/L	625	RLT	12/31/01
	37.5 36 PENDIN ND	37.5 1.0 36 1.0 PENDING ND 0.042 ND 0.042 ND 0.042 ND 0.042 ND 0.105	37.5 1.0 mg/L 36 1.0 mg/L PENDING mg/L ND 0.042 mg/L ND 0.042 mg/L ND 0.042 mg/L ND 0.042 mg/L ND 0.105 mg/L	37.5 1.0 mg/L 405.1 36 1.0 mg/L 160.2 PENDING mg/L 1664A ND 0.042 mg/L 625 ND 0.042 mg/L 625 ND 0.042 mg/L 625 ND 0.042 mg/L 625 ND 0.105 mg/L 625	37.5 1.0 mg/L 405.1 MWS 36 1.0 mg/L 160.2 MLO PENDING mg/L 1664A ND 0.042 mg/L 625 RLT ND 0.105 mg/L 625 RLT

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Steve Joy

Special Analysis

Sample Description: Outfall 001

Sample Matrix:

Project ID/Location:

WATER

Project Number:

Date Reported: 01/31/02

Date Sampled: 01/22/02

Time Sampled: 10:00

Sampled by: MH

Date Received: 01/23/02

Sample Number: BB23843

Page Number:

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	9.3	1.0	mg/L	405.1	MWS	01/24/02
Oil & Grease	ND	6.7	mg/L	1664A	JRW	01/24/02
Total Suspended Solids	460	10.	mg/L	160.2	LRD	01/25/02
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.002	mg/L	625	RLT	01/23/02
2-Chlorophenol	ND	0.002	mg/L	625	RLT	01/23/02
2,4-Dichlorophenol	ND	0.002	mg/L	625	RLT	01/23/02
2,4-Dimethylphenol	ND	0.002	mg/L	625	RLT	01/23/02
4,6-Dinitro-2-methylphenol	ND	0.006	mg/L	625	RLT	01/23/02
2,4-Dinitrophenol	ND	0.006	mg/L	625	RLT	01/23/02
2-Nitrophenol	ND	0.002	mg/L	625	RLT	01/23/02
4-Nitrophenol	ND	0.006	mg/L	625	RLT	01/23/02
Pentachlorophenol	0.163	0.006	mg/L	625	RLT	01/23/02
Phenol	ND	0.002	mg/L	625	RLT	01/23/02
2,4,6-Trichlorophenol	ND	0.002	mg/L	625	RLT	01/23/02

ND = Not Detected

Quality Assurance/Quality Control

235 Highpoint Drive Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATIN: Steve Joy

Date Reported:

01/03/02

NELAP Accredited

LELAP 04023

Date Sampled:

12/19/01

Time Sampled:

10:00

Sampled by:

M. Harper

Project ID/Location:

Facility Discharge

Weekly Requirements

Date Received:

12/20/01

Sample Description:

Outfall 001

Sample Number: BB21847

Sample Matrix:

WATER

Page Number:

1

Project Number:

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	102	1.0	mg/L	405.1	MWS	12/21/01
Oil & Grease	10.3	6.7	mg/L	1664A	SMB	12/28/01
Total Suspended Solids	2	1.0	mg/L	160.2	BB	12/26/01
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.210	mg/L	625	RLT	12/31/01
2-Chlorophenol	ND	0.210	mg/L	625	RLT	12/31/01
2,4-Dichlorophenol	ND	0.210	mg/L	625	RLT	12/31/01
2,4-Dimethylphenol	ND	0.210	mg/L	625	RLT	12/31/01
4,6-Dinitro-2-methylphenol	ND	0.525	mg/L	625	RLT	12/31/01
2,4-Dinitrophenol	ND	0.525	mg/L	625	RLT	12/31/01
2-Nitrophenol	ND	0.210	mg/L	625	RLT	12/31/01
4-Nitrophenol	ND	0.525	mg/L	625	RLT	12/31/01
Pentachlorophenol	0.919	0.525	mg/L	625	RLT	12/31/01
Phenol	ND	0.210	mg/L	625	RLT	12/31/01
2,4,6-Trichlorophenol	ND	0.210	mg/L	625	RLT	12/31/01

ND = Not Detected

Quality Assurance/Quality Control

argsmprl

NELAP Accredited

LELAP 04023

ARGUS ANALYTICAL, INC.

235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

To: Koppers Company

1 Koppers Drive Tie Plant, MS 38960

ATTN: Steve Joy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 01/07/02

Date Sampled: 12/26/01 Time Sampled:

10:00 Sampled by: МН

Date Received: 12/27/01

Sample Number: BB22111

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	37.5	1.0	mg/L	405.1	MWS	12/28/01
Total Suspended Solids	36	1.0	nig/L	160.2	MLO	12/31/01
Oil & Grease	PENDIN	G	ing/L	1664	MLC	127-31/01
4-Chloro-3-methylphenol	ND	0.042	mg/L	625	RLT	12/31/01
2-Chlorophenol	ND	0.042	mg/L	625	RLT	12/31/01
2,4-Dichlorophenol	ND	0.042	mg/L	625	RLT	12/31/01
2,4-Dimethylphenol	ND	0.042	mg/L	625	RLT	12/31/01
4,6-Dinitro-2-methylphenol	ND	0:105	nıg/L	625	RLT	12/31/01
2,4-Dinitrophenol	ND	0.105	mg/L	625	RLT	12/31/01
2-Nitrophenol	ND	0.042	mg/l.	625	RLT	12/31/01
4-Nitrophenol	ND	0.105	mg/L	625	RLT	12/31/01
Pentachlorophenol	2.54	0.105	ing/L	625	RLT	12/31/01
Phenol	ND	0.042	mg/L	625	RLT	12/31/01
2,4,6-Trichlorophenol	ND	0.042	mg/L	625	RL'I'	12/31/01





235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

To: Koppers Company

J Koppers Drive Tie Plant, MS 38060

ATTN: Blair Simpson

Pretreatment Form 2-P

Grenada

Sample Description: Wastewater

Sample Matrix:

Project ID/Location:

WATER

Project Number:

Date Reported: ()5/15/01

 Date Sampled:
 05/03/01

 Time Sampled:
 10:00

Sampled by: M. Harper

Date Received: 05/04/01

Sample Number: BB07284

Page Number: 1

Parameter	Result	Det I.Imit	Units	Method	Analysts	Date
Cyanide, Total	ND	0.01	mg/L	335 4	S	- 1-
Phonolics	ND	0.05	mg/L	333 4 420.1	FRM	05/10/01
Investigative Study	•	0.03	mg/L	420.1	AMB JSM	05/10/01 05/15/01
Metals						00,13/01
Antimony	ND	0.05	Marks of			
Arsenic	ND	0.05	ւրև/լ՝	200.7	RIH	05/07/01
Beryllium	ND	0.01	mg/L	200.7	RILH	05/97/01
Cadminia	ND		ing/L	200.7	HTR	05/07/01
Chromium	ND	0.02	mg/L	200.7	BTII	05/07/01
Copper	ND	0.05	տե/լ`	200.7	BTH	05/07/11
Lead		0.010	mg/L	200.7	BTH	(15/67/01
Mercary	ND	0.050	mg/L	200,7	BTH	05/07/01
Nickel	ND	0.0002	mg/L	245.1	JWH	05/10/01
Sclennon	0.04	0.02	$m\mu/1$.	200.7	BTH	05/07/01
Silver	מא	0.05	mg/L	200.7	втн	05/07/01
Thallium	ND	0.005	mg/L	200.7	BTH	05/07/01
Zine	ND	0.02	mg/L	200.7	BTH	05/07/01
L oic	1.36	0.025	mg/L	200.7	BTII	05/07/01
Priority Pollutant Volutile Organics						
Acrolein	ND	0.010	mg/L	524	b 43 432	
Aciylonitrile	ND	0.010	mg/L		ММР	05/10/01
Renzone	ND	0.005	•	624	MMP	05/10/01
Bromodichloromethane	ND	0.005	mg/L	624	MMP	05/10/01
Bromoform	ND	0.005	mg/L mg/L	624	MMP	05/19/01
Bromomethane	ND	0.010	-	624	MMP	05/10/01
Earbon tetrachloride	ND	0.005	mg/L	624	MMP	05/10/01
Chlorobenzene	ND	0.005	mg/L mg/L	624	MMP	05/10/01
Chloroethage	ND	0.005		624	ЧММ	05/10/01
-Chloroethylvinyl other	ND	0.010	myL myt	624	ММР	05/10/01
hloroform	ND	0.005	my/L	624	MMP	05/10/01
Chloromethane	ND	0.010	mg/L.	624	MMP	05/10/01
Dibtomodiloromothane	ND	0.005	mg/L	624	MMP	05/10/01
	* 1	COOL	mg/f,	624	MMP	05/10/01







Page Number:

2

			- alte 14 mm	ner: 2		
Parameter	Result	Det Limit	Units	Method	Analysis	Date
1,1-Dichloroethane	ND	A 00s				
1,2-Dichloroethane	ND	0.005	ពាម្ព/្រ	624	MMP	05/10/01
1,1-Dichloroethene	ND	0.005	mg/L	624	MMP	05/10/01
1,2-Dichloroothene	ND	0.005	mg/L	624	MMP	05/10/01
1,2-Dichloropropane	ND	0.010	mg/L	624	MMP	05/10/01
cis-1,3-Dichloropropene	ND	0.005	mig/t,	624	MMP	05/10/01
trans-1,3-Dichloropropene	ND	0.005	mg/L	624	MMP	05/10/01
Ethylbenzene	ND	0.005	mg/L	624	MMP	05/10/01
Methylene chloride	טא	0.005	mg/l.	624	MMP	05/10/01
i.1,2,2-Terrachloroethane	ND	0.005	ឃៅ្ែ្	624	MMP	05/10/01
Tetrachioroethene (PCF)	ND	0.005	mg/L	624	MMP	05/10/01
Toluene	ND	0.005	mg/L	624	MMP	05/10/01
1,1,1-Trichloroethane	DN CN	0.005	mg/L	624	MMP	05/10/01
1,1.2-Trichlorocthano	ND	0.005	mg/L	624	MMP	05/10/01
Trichloroethene (TCE)	ND	0.005	mg/L	624	MMP	05/10/01
Vinyl chloride	ND	0.005	mg/L.	624	MMP	05/19/01
•	ND	0,001	mg/L	624	MMP	05/10/01
Priority Pollutant Semivolatile ()	gaules					
Accaphthene	ND	0.002	m /1	£25		
Accnaphthylene	ND	0.002	mg/L	625	RLT	05/07/01
Anthracene	ND	0.002	mg/L	625	RLT	05/07/01
Benzidine	ND	0.005	ing/L	625	RLT	05/07/01
Penzo(a)anthracene	ND	0.002	mg/L	625	RL1	05/07/01
Benzo(a)pyrono	ND	0.002	ing/L	625	RLT	05/07/01
Benzo(b)fluoranthene	ND	0.005	mg/L mu/f	625	RLT	0 5/07/ 01
Benzo(g,h,i)perylone	ND	0.005	mg/L	625	RLT	05/07/01
Benzo(k)fluoranthene	ND	0.005	ing/L ing/L	625	RLT	05/07/01
his(2-Chleroothoxy) methane	ND	0.002	mg/L mg/l.	625	RLT	05/07/01
bis(2-Chloroethyl)ether	ND	0.005	•	625	RL'I'	05/07/01
bis(2-Chloroisopropyl)ether	ND	0.002	ng/L	625	RLT	05/07/01
bis(2-Ethylhexyl) phthalate	ND	0.005	mg∕I.	625	RLT	05/07/01
4-Bromophenyl phenyl ether	ND	0.003	mg/L	625	RLT	05/07/01
Buryl benzyl phthalate	ND	0.005	mg/L.	625	RLT	05/07/01
4-Chioro-3-methylphonol	ND	0.002	mg/L	625	RUT	05/07/03
2-Chloronaphthaleno	ND	0.002	mg/L	625	RLT	05/07/01
2-Chlorophenol	ND	0.002	mg/L	625	RLT	05/07/01
4-Chiorophenyl phenyl ether	ND	0.002	mg/L	625	RLT	05/07/01
Cltrysone	ND	0.002	ing/L	625	RLT	05/07/01
Dihenzo(a,li)anthracene	מא	0.005	mg/L	625	RLT	05/07/01
Di-p-butyl phthalate	ND	0.005	mg/l.	625	RLT	05/07/0 i
1,2-Dichlorobenzene	ND	0.002	mg/L	625	RI.T	05/07/04
1.3-Dichlorohenzena	ND	0.002	mg/L mg/L	625	RLT	05/07/01
1,4-Dichlorobenzene	ND	0.002	_	625	RLT	05/07/01
3,3'-Dichlorobenzidine	ND	0.002	ing/L ing/L	625	RLT	05/07/01
2.4-Dichloropherol	ND	0.002	mg/L	625 625	RLT	05/07/01
Diothyl phthalate	ND	0.005	mg/L mg/L	625	RIT	05/07/01
Dimethyl phthalate	ND	0.002	ing/L	625	RLT	05/07/01
			- 157 —	427	RLT	05/07/01



Sample Description:

Wistewater



Sample Number BB07284

Page Number:

3

Paramoter	Result	Det Limit	Units	Method	Anulysis	Date
2,4-Dimethylphenol	ND	A 000				
4,6-Omitro-2-mothylphenol	ND	0.002	my/L	625	RLT	05/07/01
2,4-Dinitrophenol	ND	0.005	nıg/L	625	RLT	05/07/01
2,4-Dinitrotoluene	ND	0.005	mg/L	625	RLT	05/07/01
2,6-Dinitrotoluene	ND ND	0.005	mg/l,	625	RLT	05/07/01
Di-n-octyl phthalate	ND	0.002	mg/L	625	RLT	05/07/01
1,2-Diphenylhydrazine	ND	0.002	nig/L	625	RLT	05/07/01
Fluoranthene	ND	0.005	mg/l .	625	RLT	05/07/01
Fluorene	ND	0.002	ב/שות _	625	ROT	05/07/01
Hexachlorobenzene	ND	0.002	mg/L	625	RLT	05/07/01
Llexachlorobutadiene		0.001	mg/L	625	RLT	05/07/01
Hexachlorocyclopentadione	ND	0.002	mg∕(.	62 5	RUT	05/07/01
Hexachlorocthane	ND	0.005	mg/L	6 25	RUT	05/()7/()}
Indeno(1,2,3-ed)pyrene	ND	0.002	mg/L	625	RLT	05/07/01
Isophorone	ND	0.005	mg/l.	625	RLT	(15/07/01
Naphthalene	ND	0,002	mg/L	625	REF	05/07/01
Nitrobenzene	ND	0.002	ing/L	625	RLT	05/07/01
2-Nitrophenol	ND	0.005	mg/l.	625	RLT	05/07/01
4-Nitrophenol	ND	0.002	mg/L	625	RUT	05/07/01
n-Nitrosodi-n-propylamine	ND	0.005	mg/L	625	RLT	05/07/01
	ND	0.002	ជាម្ន∕ែ.	625	RLT	05/07/01
n-Nitrosodimeshylamine	ND	0.002	mg/L	625	RIT	05/07/01
n-Nitrosodiphenylumine	ND	0.002	mg/L	625	RLT	05/07/01
Pentachiorephenol	ND	0.005	mg/L	625	RLT	05/07/01
Phonanthrene	ND	0.002	mg/L	625	RLT	05/07/01
Phonol	ND	0.002	mg/L	625	RIT	05/07/01
Pyrene	ND	COO.0	mg/L	625	RLT	05/07/01
1,2,4-Trichlorobenzene	ND	0.002	mg/L	625	RUT	05/07/01
2,4,6-Trichlorophenot	ND	0.002	mg/L	625	RLT	05/07/01
Priority Pollutant Pesticides/PCBs						
Aldrin	ND	0.00005	mg/L	608	MMP	05/07/01
alphu-BHC	ND	0.00005	mg/L	608	MMP	
heta-BHC	ND	0.00005	mg/L	608	MMP	05/07/01
gamma-BHC (landane)	ND	0.00005	mg/L	608	MMP	05/07/01 05/07/01
delta-BHC	ND	0.00005	mg/L	608	MMP	
Chlordane	ND	0.00005	m _a /L	608	MMP	05/07/01
4,4'-DD'I'	ND	0.00010	mg/L	608	MMP	05/07/0)
4,4'-DDF	ND	0.00010	mg/L	608	MMP	05/07/01
4,4°-DDD	ND	0.00010	mg/L	608	MMP	05/07/01
Dieldrin	ND	0.00010	mg/L	608	MMP	05/07/01
Endosulfan 1	ND	0.00005	mg/L	608	MMP	05/07/91
Endosulfan II	ND	0.00010	mg/L	608	MMP	05/07/01
Endosulfan sulfate	ND	0.00010	mg/L	608		05/07/01
Endrin	ND	0.00010	ing/L	608	MMP MMP	05/07/01
Endrin aldehyde	ND	0.00010	mg/L	608		05/07/01
Eleptachlor	ND	0.00005	mg/L	608	MMP MMP	05/07/01
Heptachlor epoxida	ND	0.00005	mg/L	608	MMP	05/07/01 05/07/01

P.04

Sample Description:

Wastewalur

Sample Number: BB07284

Page Number:

4

Parameter	Result	Det Limit	Ualts	Method	Analysto	Date
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260 Toxaphune	ND ND ND ND ND ND ND	0.00100 0.00200 0.00100 0.00100 0.00100 0.00100 0.00100	mg/L mg/L mg/L mg/L mg/L mg/L	608 608 608 608 608 608 608	MMP MMP MMP MMP MMP MMP MMP	05/07/01 05/07/01 05/07/01 05/07/01 05/07/01 05/07/01 05/07/01

ND = Not Detected

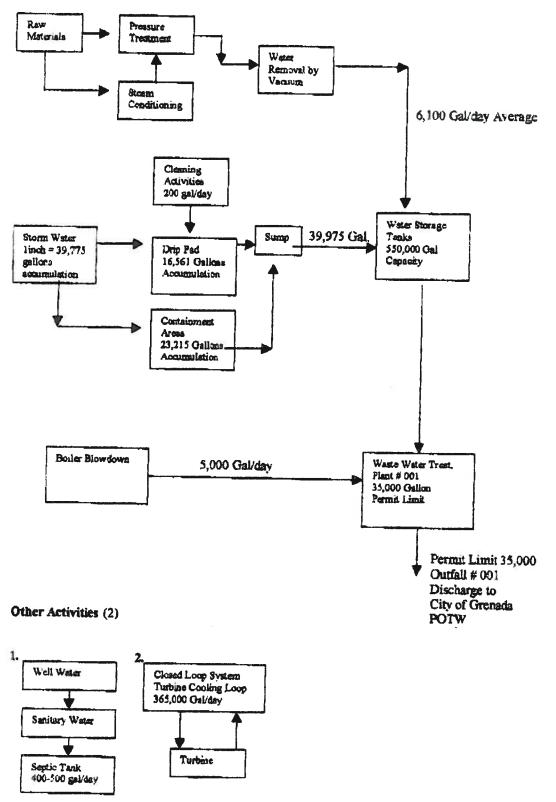
Order Assurance/Quality Control

R. G. Gicsauet, Ph.D.

^{*} Dioxins will be reported at a tater date when results are received from subcontact lab.

KOPPERS INDUSTRIES INC.
GRENADA, MISSISSIPPI
WASTE WATER PROCESS FLOW DIAGRAM 5-15-2001

PROCESS FLOW DIAGRAM with a ONE INCH RAINFALL EVENT



Supplemental Info.
Page 1 of 9

Rainfall Data Acquired from Army Corp of Engineers
Grenada Lake Office

Historical Discharge Data Grenada Plant KOPPERS INDUSTRIES

Summation of all waters entering & exiting WWTP # 001 Per Year

7
9
Bair Mar
2

Historical Discharge Data Grenada Plant KOPPERS INDUSTRIES

of days Average/day Max/mont Avg./math. Avg./day/Gyrs Max/6 yrs 29.5 14446.8 38300

6 Year Composite

_		_	
Diachama	423/80.08 gal	Avgurant Oyrs.	Discharge
_	gal		<u>ଜୁ</u>
	29.5	Avg_Ameth.	# of days
	14446.8	Avg.klay/Gyra.	Average/day
	38300	Мах/8 утв.	Maprimonth
	33.33	eeding 30000 gai	1. % of months exc-
	70.83		2. % of months an
į	90.28	and an armoral	2
	A 18	Maintainmond	

5085361

or over 30,000 gallons. This translates to Thirty-three (33) percent % of seventy-two (72) months having discharges at or above 30,000 gallons. 1. Twenty-four (24) months out of a total of seventy-two (72) months had a discharge at

having discharges at or above 25,000 gallons. 25,000 gallons. This translates to Seventy-one (71) percent % of seventy-two (72) months 2. Fifty-one (51) months out of a total of seventy-two (72) months had a discharge at or over

20,000 gallons. This translates to Ninety-one (91) percent % of seventy-two (72) months 3. Sixty-five (65) months out of a total of seventy-two (72) months had a discharge at or over having discharges at or above 20,000 gallons.

Rainfall Data Acquired from Army Corp of Engineers
Grenada Lake Office

Historical Discharge Data Grenada Plant KOPPERS INDUSTRIES

Historical Discharge Data

Grenada Plant

KOPPERS INDUSTRIES

Discharge time needed to treat one year (50in) worth of rain using our 35,000 galfday limit

If only stormwater was processed and discharged, 354 days production 56.76 days

Rain Water Accumulation Possibilities KOPPERS INDUSTRIES Grenada Plant 4\24\2001

Sq. Ft.(ff*) Curb Height (ft) Cubic ft. (ft*) Cubic ft. (ft*) Galfon Capacity One-inch rain Average one- month rain 4.18 inches 1995-2000	Drip Pad 26568 0.6666 17710 132473 2214 16561 9255 69224	Can San San San San San San San San San S	7315 54716 7187k Farm 21000 3 63000 471240 1750 13090	Sel as	WWTP Confairment 5885 4.66 28492 198161 472 3529 1980 14812	Q <u>a</u> → Qa → → → → → → → → → → → → → → → → →	Cylinder Basement Units used 9408 ft 3 ft 28224 ft 3 211116 gal 5884 gal 3277 ft 3 24513 gal	gal	1 1 1	Other Con- bainment 1173 0.866 781 5844 98 731 409	Other Con-
urb Height (ft) ubic ft. (ft²) silon Capacity ne-inch rain rerage one- outh rain 18 inches 95-2000 enada Average	0.6666 17710 132473 2214 16561 9255 69224	හුසු සු කු හු සු කු ක	_	හු යි. නික් කින් කින් කින් කින් කින් කින් කින්	4.66 26492 198161 472 3529 1980 14812	<u> </u>	3 28224 211110 784 5884 5884 3277 24513	Q) ·			n 0.666 n³ 781 136208 gal 5844 1018632 n³ 98 4748 gal 731 39775 n³ 409 19847 gal 3056 166322
Average one- month rain 4.18 inches 1995-2000 Grenada Average	9255 69224	ga z		ga l	1980 14812	gai	3277 24513	_		gal da3	n³ 409 19847 gal 3056 166322
24hr/ 25 year flood event - 7 inch rain	15498 115925	gai	12250 91630	9 <u>8</u> 1	3316 24805		5488 41050	•	gal R3		¢3 gal
Rainfall Accum- ulation using 50inch/yr 4.16ft	110523 826711	ga <u>i</u>	87360 ft ³ 653453 gai	₽3 Qai	23687 n³ 177180 gai	9 <u>8</u> 3	391 2927	37 47	39137 ft ³ 292747 gai	137 ft ³ 4887 747 gai 36558 [

Process Water Possibilities
Grenada Plant
KOPPERS INDUSTRIES

Process Water Data

Average for this week	4/23/2001 4/24/2001 4/25/2001 4/26/2001 4/27/2001
4954 week	Water (gal) charges 01 2770 6 01 7200 8 01 6000 7 01 4200 2
ა	charges 6 8 7 7 2 2 2
8	
7	charges of charges 1 7 2 10 1 8 2 4 4 6
10684	treated 12032 13731 11868 6197 9792
0.5	0.2 0.5 0.5 0.7 0.5
22	treating days/mont 22 22 22 22 22 22

134115.1 (Avg.Ft³/day) x (A	Average process gallons/month(22days)		records 3330224	Averages base Total Ft ³ treated based on year 2000 production	
(Avg.Ft³/day) x (Avg.Gal./F(³) x (Avg.#days/month)	days)		records(284days) 12614,48	Averages based on production records oral Ft ² treated Average Ft ² /day treated ased on year based on year based on year 2000 production	
/month) (Avg.Ft³/day) x (Avg.Gai./Ft³) x (Avg.#days/year)	Average process gallons/year(264days)	(Avg.Ft ² /day) x (Avg.Gal./Ft ³) x (1)	6096	Average process gallons/day	

Process Water Possibilities
Grenada Plant
KOPPERS INDUSTRIES

Historical Discharge Data Grenada Plant KOPPERS INDUSTRIES

Historical Waste Water Discharge Amounts from 1995 - 2000
KOPPERS INDUSTRIES INC.
Tie Plant, Mississippi
4\10\2001
Supporting Data for 6 Year Composite

rotal 59.00	100.00	83.33	Š		20458	Max Avg.				
oz.c	10000	23 33	££ 8½	38300	15509	Average		458425	Average	
h (4	ς ,	×	38300	16977.4	31	Qai	006920	Cacalulas	į
3 60	N	<	×	34000	2.74041	. 6	Y	50000		100
2.47	2	4		3	446430) #	3	410000	November	
26.0		٠ (>	26300	12141.9	<u> </u>	ga	376400	October	
- C	7 ;	ь ·	0	22400	12078.6	28	ga	338200	September	CRRI
1 2	2	<	×	33100	10203.6	0	ya.	200700	ven@uc	
5.6	7	Y	>	9		3 (3 9	500700		
1.1			ς (34800	15067 7	<u>ယ</u>	<u>8</u>	467100	Amr	1995
1 6	۱ ۱	<	0	27600	17486.7	30	gal	524000	JUNE	CRRI
ال در	7	٥	0	20300	95U3.2	2	Sei.	C94000	, Total	200
7.5	7	~	*	08.050	2000	3 (3 0	204600	May	1995
4 8.c	•	•	: ;	32500	15573 3	30	oa l	467200	Aon!	1995
n (i I	< :	×	34800	20458.1	<u> </u>	gel	634200	March	CRA
× 1×	7	<	×	JUCCC	R'07007	20	90	00000	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3
3./4	2	y	(20076	ž	9	20025	February	1995
		·	3	25300	13916.1	4	92	431400	Janualy	1980
(Inches	ing 25000 gal eeding 20000 gal	eeding 25000 gal	eeding 30000 gal	•		?	<u> </u>	200	-	1005
? Rainfall/mo	% of months exc- Rainfall/r	% of months exc-	SYD CHILDRID IS A	Interest to a contract	Service Control of the Control of th			The second second		

"Note: On December 14, 1995 our permit was exceeded due to a broken well water line. It was caused by the cold weather which burst the line and was dumped into the tank farm.

x-month with discharge > then 30,000 gal

y≃moeth with discharge > than 25,000 ga!

z=month with discharge > then 20,000 gai

Rainfall Data Acquired from Army Corp of Engineers Granada Lake Office

Historical Discharge Data Grenada Pfant KOPPERS INDUSTRIES

2, 14

2.5	Ī	1.	·LANT.	W.S	
1					
1					



Avg. 4.15					17158	Max Avg				
Total 49.82	75.00	58.33	8.33	30500	12229	Average		372522	Average	
5.87	0	0	0	18900	9716.1	31	92	301200	December	1980
4.96 36	2	o	0	23700	12526./	ي و	<u>G</u>	2000	CONTRACTOR!	200
1.84	2	0	0	0000	10196.7) <u>-</u>	£ 6	375900	Alouganhar	1000
6.63	7	Y	0	70900	10100.7	ع <u>د</u>) (2)	216160	October	1996
5.16	7	~		2500	15916.7	<u>ئ</u> د	9	•	Sentember	1996
		: (>	26100	9700 0	ယ	08	300700	August	1996
1.78	o ,	o	0	16800	7229.0	31	ga	224100	Ying	1986
4.65	9	0	0	18900	2.0986	30	ga	OUDCEZ	Julie .	000
1.17	2	¥	0	2/200	10435.5	<u>.</u>	gar	200000	in a	1000
5.29	2	¥	0	20400	0.000.0	ه د د	i A	332500	Mov	1008
4.00	r) ;	3040	423000	ຊີ	2	398700	April	1996
28.7	7	<	×	30500	17032.3	31	gai	528000	March	ORRI
3.28	2	\	0	2/900	13/89 7	23	92	MAGAG	remutary	1000
4.56	2	~	0	20400	1770.7	3 -	وو	30000		1000
(inches)	25000 gal eeding 20000 gal		eeding 30000 gat eeding		47460	.	2	K21000	Verienci 1	1996
Rainfall/month	onths exc- 1% of months exc- Rainfall/month	% of months exc-	Max/month % of months exc-	Maximonth	Discharge (Gal)# of days Average/day	# of days	e (Gal)	Discharge	UNIONAL	Tear
			KOPPERS INDUSTRIES	KOPPERS						
			Grenada Plant	Grenad						
			Historical Discharge Data	Historical Dis						

Grenada Lake Office	Army Com of Engineers	Rainfall Data Acquired from
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Year	Month	Picobono								
T can	INCORN	PRINCIPAL	Cally	or days	Average/day	Max/month	Cracial Be (Call) if or days Average/day Max/month % of months exc-	% of n	nonths exc- % of months exc- Rainfall/mor	Rainfall/month
							eeding 30000 gal eeding	eedina 25000 aal	25000 gal eeding 20000 nai	(inches)
1997	January	527000	gai	<u>3</u>	17000.0	27000	5		7	a and
1997	February	305600	gaj	28	10914.3	21700	3	> \	, ,	3 6.00
1997	March	516800	02	သ	18871 n	noace.	< (: (5.40
1997	Apri	201900	<u>g</u> (بر 5	0 0c28	15000	> >		7	0.40
1007	1000	19100	4) }	0,00.0	Onoci	0	0	0	3.05
1881	Way	484300	ga	31	15622.6	28500	0	~	2	
1887	June	394500	gel	ၶ	13150.0	30000	×	< ¹	7	7.50
1997	Amr	245500	gai	31	7919.4	17900	0	>	> !	n
1997	August	432100	ga	<u>မ</u>	13938.7	31600	×	< (v (S (
1997	September	304200	gal	မ	10140.0	20000	3	5 4	4 !	3 4 6 6
1997	October	330400	<u>98</u>	3	10658.1	22800	o	> (• 1	2 7 7
1997	November	309600	160	<u>3</u> 0	10320.0	19600	>)	> •	1 0 7
1997	December	377100	gal	31	12164.5	22600	0	• •	7 (1.0
	Average	Average 369083.3	>	Ачсгаде	12102.4	32600	25	41.67	7.5	Total 58 95
			2	Max Avg.	17000				į	Avg. 4.9
Rainfall Da Army Corp	Rainfall Data Acquired from Army Corp of Engineers	from				Historical Discharge Data Grenada Plant KOPPERS INDUSTRIES	charge Data a Plant			
Allies Allies	or Engineer	S				KOPPERS INDUSTRIES	DUSTRIES			

1999 1999 1998 1999 1999 1999 1999 1999 1999 1999

November October

422600

501900 584500

16190.3

19483.3

19712.9 19519.4 16186.7 13354.8 18070.0

8 Ça ga 8 92 gal 92 gal

December

639400

Average

Max Avg. Average

21486.2

17659.5 20625.8 14086.7

91.67

8

Avg. 2.78 Total 33.28

2 85

1.78

9.0

0.58

3.27 2.66 2.07 5.44 3.26

1.32

34300 25000 27000 33300 29300 30500 33200 23700 29400 30000 29100 30900

September

August

611100

<u>July</u> June

605100

485600 414000

30 3 8 Februan January

432300 623100

28 28 31

15439.3

21486.2

17758.1

March

550500

<u>Apri</u>l May

542100

Year

Month

Discharge (Gal) # of days | Average/day | Max/month % of months exc- |% of months exc- |% of months exc- | Rainfall/month

eeding 30000 gal eeding 25000 gal eeding 20000 gal

(inches)

1
1

988 January 387000 gai 31 12483.9 988 February 398900 gai 28 14246.4 998 March 444400 gai 31 14335.5 998 April 411400 gai 31 10361.3 998 June 337400 gai 31 10361.3 998 June 337600 gai 23 10304.3 998 August 333600 gai 21 15885.7 998 September 311200 gai 30 10373.3 998 November 392000 gai 31 9041.9 998 November 392000 gai 30 13066.7 998 December 538400 gai 28 19228.6 Average 368066.7 Average 12857.3	6.18 Total 45.64					0.07721					
### Privary 387000 gal 31 12483.9 27000 eeding 30000 gal eeding 25000 gal eeding 20000 gal	6.18	100.00	75.00	16.67	33000	10228 6	May Ave			, is diago	
September 388,000 gal 31 12483.9 27000 gal 320000 gal 28 142483.9 27000 gal 28 142483.9 27000 gal 28 142483.9 27000 gal 28 27000 gal 27000 27000 gal 27000 gal 27000 gal 27000 gal 27000 27000 gal 27000 gal 27000 2700		7	Y	, 	00000	20070		ŀ	TARCAR 7	- 1	
Section Sect	3.38	•	; •	<	20200	19228 8	28	9	538400	December	1998
Part	3 60	7	0	o	23700	13066.7	30	gar	MOZE	(SOLL LADAR)	986
### Partial Process Water	0.91	2	0	c	21400	0,170	3 .	9	30300	Movember	1008
### Partial Process Proc	0.44	•	ć) (34400	00410	<u>د</u>	2	280300	October	1998
### Panuary 387000 gai 31 12483.9 27000 gai eeding 25000 gai eeding 20000		. 1	· •	o	21400	10373.3	<u>3</u> 0	ga	311200	September	SABL
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### Page Page	ω 2	2	~	c	41.000	2000	2	2 (222600	D. 101	2008
Banuary 387000 gai 31 12483.9 27000 gai beding 25000 gai beding 20000 gai	17.7	٢	: •)	27200	10304 3	23	oa B	237000	Ying	1998
Banuary 387000 gal 31 12483.9 27000 gal eeding 20000 gal	2 7 7	7	<	٥	28800	11246.7	30	ga	33/400	June	ORAL
998 January 387000 gai 31 12483.9 27000 eeding 30000 gal eeding 20000 gal	4.38	N	~	×	00000	10001.3		٤.	000		
### 17.00 Process Proc	6.2/	~	y	•	3000	10264	بر <u>*</u>	3	321200	May	1998
### 16 Conference Proceeding Proceeding Proceded Proceded		l !	ξ '	>	26200	13713.3	<u>အ</u>	<u>9</u>	411400	Ap <u>n</u>	96A
998 January 387000 gal 31 12483.9 27000 o y 2 998 February 398900 gal 28 14246.4 25000 o y 2 998 March 444400 gal 31 124 1425.5	A 83	7	~	0	79800	14000.0		ga	1		
98 January 387000 gal 31 12483.9 27000 o y Z 98 February 398900 gal 28 14246.4 25000 o y Z	J. 14	^	•		3000	2 2007	7	20	444 400	March	1998
eeding 30000 gal eeding 25000 gal eeding 20000 gal eeding 20000 gal eeding 20000 gal		4 1	ς '	3	25000	14246.4	28	ga	398900	repluary	0861
eeding 30000 gal eeding 25000 gal eeding 20000 gal	5 29	2	~	0	2/000	A.CO474	2	8		7 1 1 1 1	
of the state of th		eeding 20000 gal	_	eeding 30000 gal	77000	104930	.	2	387000	January	19 98
	- Rainfall/month	% of months exc.	% of months exc-	% of months exc-	MINITALIAN	Mendenda	In or days		8		

Grenada Lake Office Army Corp of Engineers Rainfall Data Acquired from

> KOPPERS INDUSTRIES Historical Discharge Data Grenada Plant

Historical Discharge Data

Grenada Plant

KOPPERS INDUSTRIES

January 605000 gal 31 February 386700 gal 29 March 466800 gal 28 May 310900 gal 28 June 404800 gal 31 April 230900 gal 31 August 370800 gal 32 September 348900 gal 32 October 566900 gal 31 November 362900 gal 30 December 381800 gal 30 December 381800 gal 30 December 381800 gal 30 Average 442233.3 Average	Avg. 4.57					22458.8	Max Avg.				
Involutir	Total 50.27	91.67	75.00	41.67	34800	16323.5	Average		442233.3		
	7.7	2	y	×	32900	22458.8	17	<u> </u>	381800	December	2000
	14.7	7	~	×	34100	22096.7	30	gal	662900	November	2000
World Discrinity (Gal) # of days Average/day Max/month % of months exc. % of	0.2	2	¥	Ω	28900	18287.1	31	gai	566900	October	2000
March Discrinity (Gal) # of days Average/day Max/month % of months exc. % of	-1 -89	2	0	0	23600	15859.1	22	gal	348900	September	2000
Informative	0.7	2	~	0	27500	16854.5	23	gal	370800	August	2000
Warring Charles Charles Average/day Max/month % of months exc. % of months ex	1.5	0	0	0	18800	7448.4	<u>3</u>	gal	230900	July	2000
Internal	4.6	2	Y	0	29600	13493.3	30	ga	404800	June	2000
Internative (Gal) # of days Average/day Max/month % of months exc. % of months	 	2	0	0	22500	11103.6	28	gal	310900	May	2000
Waxmonth	10.3	2	Y	×	34000	20371.4	28	gal	570400	April	2000
Instrictive (Gal) # of days Average/day Max/month % of months exc- % of months	5.87	2	¥	0	29800	15058.1	31	gal	466800	March	2000
Jenuary 605000 gal 31 19516.1 34800 x y c months exc. % of months ex	no data	2	٧	×	31400	13334.5	29	gal	386700	February	2000
IDISCRAIGE (Gali) # or days Average/day Max/month % of months exc. % of months	<u>1</u> .8	2	¥	×	34800	19516.1	31	gal	605000	January	2000
Ulschaige (Gall) For days Average/day Max/month % of months exc. % of months exc. % of months exc.	(inches)	eeding 20000 gal	~	eeding 30000 gal							
	Rainfall/month	_	la.	_	Max/month	Average/day	# of days	(Gal)	Discharge	Month	ear

NU. 1588

Rainfall Data Acquired from Army Corp of Engineers Grenada Lake Office

Historical Discharge Data Grenada Plant KOPPERS INDUSTRIES

FACSIMILE TRANSMITTAL SHEET FROM: Ms. Mary Coleman Blair 1-601-961-5703 NO. OF PAGES (INCLUDING THIS ONE) NOTES/COMMENTS: _____URGENT ______PLEASE COMMENT ______PLEASE REPLY Ms. Coleman, Enclosed is your May 4th, 2001 letter, my response letter, laboratory bench sheets, process flow diagram, and supporting information. If you have any questions please call me a extension 40

PO BOX 160 TIE PLANT, MS. 38960 (662)-226-4584 - PHONE (662)-226-4588 - FAX



ARGUS ANALYTICAL, I

235 Highpoint Drive Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

Koppers Company To:

1 Koppers Drive Tie Plant, MS 38960

ATTN: Steve Joy

Project ID/Location:

0013

Sample Description:

Wastewater

Project Number:

01/18/01 Date Reported:

Date Sampled:

1-17-01

Time Sampled:

Sampled by:

M.Harper

Date Received:

01/18/01

Sample Number: BB01227

Sample Matrix:

WATER

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Pentachlorophenol	0.349	0.005	mg/L	625	RLT	01/18/01

ND = Not Detected

Unless otherwise noted, all results are reported on the as received basis. argusnd

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.



Mississippi Department of Environmental Quality Office of Pollution Control Water Compliance Inspection Report

Site Name:

Koppers Industries Inc

Permit Number: Water-Pretreatment

MSP090300

Physical Address

Mailing Address

1 Koppers Drive

Tie Plant, MS 38960

PO Box 160

Tie Plant, Mississippi 38960

Grenada County

Transaction code: -----N - new

Completed date: ----- 1/16/02

Compliance activity & pcs codes:---- CEI-NPDES - C

Facility type: -----Industrial - 2

Investigator: ------Azzam Abumirshid

111.400-9	
Areas Evaluated	S FACILITY SITE REVIEW
S PERMIT	N PRETREATMENT
N LABORATORY	N EFFLUENT/RECEIVING WATERS
S SELF-MONITORING PROGRAM	S FLOW MEASUREMENT
S RECORDS/REPORTS	S OPERATIONS & MAINTENANCE
N SLUDGE DISPOSAL N COMPLIANCE SCHEDULES	
N COMPLIANCE CONTESTS	Evaluated

M-Marginal

U-Unsatisfactory

N-Not Evaluated

COMMENTS: Facility treats wastewater generated from the preserving process on site. Wastewater goes through an oil/water separator, biological treatment, clarifier and then discharged to city of Grenada POTW. On January 3, 2002, facility was notified by Argus Analytical Laboratory that samples collected on December 19 and 26, 2001 exceeded pentachlorophenol allowable discharge limits.

ility ceased discharging wastewater to the city POTW. Facility believes that low temperature caused the pent deficiency in the biological treatment system. Facility is planning on providing a source of heat to ical treatment system and or adding a polishing tank. In the mean time wastewater is collected in tanks.

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DISCHARGE MONITORING REPORT (DMR)

OMB No 2040-0004

DISCHARGE NUMBER

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all Interments here) NAME/TITLE PRINCIPAL EXECUTIVE OFFICER 77 500 6450 ECH. 合けから 00000 しているのから ひまだし, L. Henderson TYPED OR PRINTED PARAMETER HOME のおこびび STATES TOT, REQUIREMENT MEASUREMENT MEASUREMENT REQUIREMENT MEASUREMENT MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT MEASUREMENT REQUIREMENT MEASUREMENT REQUIREMENT MEASUREMENT PERMIT SAMPLE PERMIT SAMPLE PERMIT SAMPLE PERMIT SAMPLE SAMPLE SAMPLE PERMIT SAMPLE PERMIT PERMIT or those persons directly responsible for gathering the information, the information submitted is, to the best of my handedge and belief, true, accurate, and complete. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system including the possibility of fire Noor-B MOI-8 FC0 -NOOL B HO AVG MO AVG HO AVG OBC 00147 MO AVG REPORT 如如衛衛 中縣 REPORT AVERAGE 5.710 AVG AVG QUANTITY OR LOADING 0.035 0.0239 NOOTEB NOOI-8 NOOT-8 かななな かか MAXIMUM 11.124 iti, irus, occurate, and complete (25) UNITS (F.C. 26) 26) 00 (07) 25 잗 なかかかかない 松林社会 在學士在於於 经外外的 MINIMUM H SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT QUALITY OR CONCENTRATION 0 47 Yout = 13 MODE = B YOUT = B AVERAGE 弘 弘 弘 弘 弘 弘 弘 7.625 REPORT おおなななない 46.0 NVG NOTE: Read instructions before completing this form. 600 480 MOST-B NOOT = B MODE-B MAXIMUM 计分析法 经收益 11:1 78.0 TELEPHONE 246-4584 STIND NUMBER **0** 13) 1 × 0 E O 0 YEAR PREQUENCY B EERL ANALYSIS FERL EEKLY EEKLY WICE/ TEXT ç **M** DATE GHAB GRE COMP2 GRAB 6mb GRAB Conti CONTI Grab COMPZ GRAB Confe SAMPLE クなり OMP DAY 21

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FACILITY GRENADA COUNTY

OMB No. 2040-0004

DISCHARGE NUMBER

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LOCATION

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) FACILITY IS MENTANDE COUNTY LOCATION 06.425 NAME/TITLE PRINCIPAL EXECUTIVE OFFICER EFFLUERT SKOSS VALUEREQUIREMENT 39032 では、対していいのにいいないないというと 医医医性后丛 このできるこ 00030 SOUPENDED. 医阿斯斯氏 建水温度 CX Z . - I 20020 12816 の生物なられる。 1416 RESURAT 50 ** 01195 (20 97) **经国际选择路回路** SWEET, PARAMETER 1. Henderson TYPED OR PRINTED TOPAL 02000 00000 01033 M.Tell (Blank 5.7:235 45, PLAN VALU 503 MEASUREMENT MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT MEASUREMENT REQUIREMENT MEASUREMENT MEASUREMENT MEASUREMENT REQUIREMENT MEASUREMENT SAMPLE SAMPLE SAMPLE SAMPLE PERMIT SAMPLE PERMIT SAMPLE SAMPLE PERMIT PERMIT PERMIT PERMIT PERMIT I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information I am aware that there are significant penalties for submitting fabe information the possibility of fine and imprisonment for knowing violations. submitted is, to the best of my knowledge and bestef, true, accurate, and complete NobI-B MODI = B 20169 4.034 0 SAT OF NODI ~ B OF MO AVG HO AVG 0.632 MO AVG 38910 **AVERAGE** AVG AVG QUANTITY OR LOADING 0,0375 NoDI >B NoDI-R DATLY DAILY MX MAXIMUM 5,230 FROM YEAR 1.88/91 ₹ O (C.C.) TEE/D L53/D Las/a LES/D STINU 10.70 (A) 26 20 20 30 MONITORING PERIOD DAY 70 ~ MINIMUM YEAR MO QUALITY OR CONCENTRATION SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT NODI-B B-Jack Nobs =-8 HO 4.95 AVERAGE 3/.8 AVG AVG SAC AVG NOTE: Read instructions before completing the form. B-100K NOOT-B VODI-B MAXIMUM THE PERSON 00 5.7 THE REAL PROPERTY. AREA NUMBER YEAR TELEPHONE #Y -1 JAN 2 2 2003 STIND 11 - I 140 140 13) E O 0 0 0 Ø 0 PREQUENCY 1/5 SISATVNV 3 3~ 3 0 No. DATE SAMPLE Comp Camp Grad 3 Gred Grab 구 문 DAY

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DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER

DISCHARGE NUMBER

3658

OMB No. 2040-0004

Attachments: 1) Analytical results showing BOD expiration 2) December 30th letter concerning Discharge.

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EPA Form 3320-1 (Rev. 3/99) Previous editions may be used

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FACILITY GRENADA COUNTY

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) TYPED OR PRINTED uding the possibility of time and imprisonment for knowing violations.

00070/ This is a 4-part form.

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Koppers Industries, Inc. P.O. Box 160 Tie Plant, MS 38960

> Telephone: (601) 226-4584 FAX: (601) 226-4588

December 17, 2002

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7000 0520 0021 7551 9118

Subject: Koppers Industries, Inc.

Grenada Plant – November, 2002 POTW Permit #MSP090300 Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the November, 2002 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. There were no excursions during this reporting period. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor

Cc: Tim Basilone - Koppers

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR) MSP090300

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) Thomas L. Henderson Manager NAME/TITLE PRINCIPAL EXECUTIVE OFFICER FACILITY LOCATION ADDRESS 1000E0 3505E THE ROTTE CHAPTER 一工版は 一名門を一名門之一 00310 THE WOLL 00560 四天号第二十四次 00530 180 T) の田田田をひる COUNTY COUNTY ** TYPED OR PRINTED PARAMETER IN THE POS TANT 日本 一のな Plant MEASUREMENT 0.0176 REQUIREMENT REQUIREMENT MEASUREMENT REQUIREMENT MEASUREMENT MEASUREMENT WOOD = B REQUIREMENT REQUIREMENT MEASUREMENT REQUIREMENT MEASUREMENT REQUIREMENT MEASUREMENT PERMIT SAMPLE SAMPLE SAMPLE SAMPLE PERMIT PERMIT SAMPLE PERMIT PERMIT SAMPLE PERMIT PERMIT SAMPLE submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted is, to the best of my knowledge and belief, true, accurate, and complete I certify under penalty of law that this document and all attachments were 0.0026 3 NODI-B ď. 7.78 0.531 1083 17.0 HU AVC さいで AVERAGE ID AVG THE BURL 09688 LHOSTA 水水水水水水 你你你你你 QUANTITY OR LOADING 0.0291 NODIFE VODE -B 0.035 27.16 40 100 1.06 MAXIMUM A HEGO PATEY FROM 7 111 京都有食以京 去亦亦称本 YEAR MO PERMIT NUMBER 本中中中 8 LBS FOD AVC. り合く STINO 03 字がなず 2 759 198/ 9 126 E C MONITORING PERIOD DAY 7 MINIMUM 1 MINIMUM 2 从本以事方 海出海公安縣 於京都京於於 你你就你你 本本本の 水水水水水 本本本本本 水水水水 於京當京於 故者如此故此 水水水水水水 Quality or Concentration YEAR MO SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT DISCHARGE NUMBER 001 A VODI-8 VODE=B 540 0.021 C 30 67.5 4.55 **AVERAGE** (E) AVO MD AVE 大大大 大大大 DAY Lafferda 本部於於於 水水水水水水 AVC AVO ついの *** NO DISCHARGE TOTAL FAC FINE MINISH NOTE: Read Instructions Delorg pompleting this (SUBR NO) 0.03 NODI-B VODT = B 236 8.10 CC MAXIMUM M ATTWE 3 MARLY M M A H VC 8, **EXIMP** 亦水水水水水水 不太亦亦亦亦 802 221-4584 AREA NUMBER ILION HISCHARGE TELEPHONE m 水水水水 STIND MG/L 10 M 1/9/1 MG/L 500 水水水水水 NON 1 1 1-1 M 0 0 0 0 EX 0 0 YEAR MO OF SAMPLE ي 1 MEEKL 地下下へ 芝門下スト WEEKI MEEK! ANALYSIS 7 THICK WEEL m DATE 6 Cont RAREA K CRAB Y'COMP Stab grab gras KERAB **HODMP** gare CONT GRAB DAY MIL

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PA Form 3320-1

excursions.

(Rev 3/99) Previous editions may be used.

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PA Form 3320-1 excursions. (Rev 3/99) Previous editions may be used.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS [Reference all attachments here]

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ALMD A

ADDRESS PERMITTEE NAME/ADDRESS (Include Facility Name/Location &Different) TO BOX 150 THE PLANT 3 38960

LOCATION GRENADA

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FROM

YEAR MO

FACILITY GRENADA COUNTY

NATIONAL POLLUTANT DISCHARGE ELMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

MSP090300
PERMIT NUMBER

MINOR

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NAME FACILITY LOCATION **ADDRESS** PERMITTEE NAME/ADDRESS (Include Facility Name/Location (I Different) NAME/TITLE PRINCIPAL EXECUTIVE OFFICER "MINTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) THE MENT OF GREWADA COUNTY PARAMETER à TYPED OR PRINTED CRIDE MEASUREMENT MEASUREMENT MEASUREMENT REQUIREMENT MEASUREMENT MEASUREMENT MEASUREMENT REQUIREMENT REQUIREMENT MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE PERMIT PERMIT SAMPLE PERMIT PERMIT PERMIT PERMIT PERMIT submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. a certaly under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed including the possibility of fine and imprisonment for knowing violations. to assure that qualified personnel properly gather and evaluate the information I am aware that there are significant penalties for submitting false information. T. AVERAGE 1200 CO 4 100 THE SECOND S . QUANTITY OR LOADING * FROM **MAXIMUM** 1001 200 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (PVPLES)
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Haley P. Biddy
Treating Supervisor
S,H,& E Coordinator

December 12, 2003



Koppers Inc.
Utility Poles and Piling
P. O. Box 160
Tie Plant, MS 38960
Tel 662 226 4584 ext. 40
Fax 662 226 4588
BiddyHP@koppers.com
www.koppers.com

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7002 0460 0003 7596 1178

Subject: Koppers Inc.

Grenada Plant - November, 2003- POTW Permit #MSP090300 Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the November, 2003 Discharge Monitoring Report for Koppers Inc. located in Tie Plant, MS. There were no excursions during this reporting period. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Cc:

Tim Basilone - Koppers

Haley P. Biddy
Treating Supervisor
S.H.& E Coordinator



November 21, 2003

Utility Poles and Piling
P. O. Box 160
Tie Plant, MS 38960
Tel 662 226 4584 ext. 40
Fax 662 226 4588
BiddyHP@koppers.com

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7002 0460 0003 7596 1017

Subject: Koppers Inc.

Grenada Plant - October, 2003- POTW Permit #MSP090300 Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the October, 2003 Discharge Monitoring Report for Koppers Inc. located in Tie Plant, MS. There were no excursions during this reporting period. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Cc:

Tim Basilone - Koppers

Haley P. Biddy **Treating Supervisor** S,H,& E Coordinator





October 20, 2003

Koppers Inc. **Utility Poles and Piling** P. O. Box 160 Tie Plant, MS 38960 Tel 662 226 4584 ext. 40 Fax 662 226 4588 BiddyHP@koppers.com www.koppers.com

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7002 0460 0003 7596 1154

Subject: Koppers Inc.

Grenada Plant -- September, 2003- POTW Permit #MSP090300 Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the September, 2003 Discharge Monitoring Report for Koppers Inc. located in Tie Plant, MS. There were no excursions during this reporting period. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely.

Haley P. Biddy

Cc:

Tim Basilone - Koppers

Haley P. Biddy Treating Supervisor S,H,& E Coordinator





Koppers Inc.
Utility Poles and Piling
P. O. Box 160
Tie Plant, MS 38960
Tel 662 226 4584 ext. 40
Fax 662 226 4588
BiddyHP@koppers.com

September 22, 2003

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7002 0460 0003 7596 1147

Subject: Koppers Inc.

Grenada Plant - August, 2003- POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the August, 2003 Discharge Monitoring Report for Koppers Inc. located in Tie Plant, MS. There were no excursions during this reporting period. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely.

Haley P. Biddy

C¢:

Tim Basilone - Koppers

Haley P. Biddy Treating Supervisor S.H,& E Coordinator



AUGUST 25, 2003



Koppers Inc.
Utility Poles and Piling
P. O. Box 160
Tie Plant, MS 38960
Tel 662 226 4584 ext. 40
Fax 662 226 4588
BiddyHP@koppers.com
www.koppers.com

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7002 0460 0003 7596 1123

Subject: Koppers Inc.

Grenada Plant – July, 2003-POTW Permit #MSP090300 Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the July, 2003 Discharge Monitoring Report for Koppers Inc. located in Tie Plant, MS. There were no excursions during this reporting period. If you have any questions, please call me at 662-226-4584 ext. 40. Sincerely.

Haley P. Biddy



Koppers Inc.
Utility Poles and Piling
P.O. Box 160

July 14, 2003

P.O. Box 160 Tie Plant, MS 38960 Tel 662 226 4584 Fax 662 226 4588 www.koppers.com

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7000 0520 0021 7551 8906

Subject: Koppers Inc.

Grenada Plant - June, 2003-POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the June, 2003 Discharge Monitoring Report for Koppers Inc. located in Tie Plant, MS. Also enclosed is the January – June 2003 semi-annual metals testing results. There were no excursions during this reporting period.

If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor





June 20, 2003

Koppers Inc.
Utility Poles and Piling

P.O. Box 160 Tie Plant, MS 38960 Tel 662 226 4584 Fax 662 226 4588 www.koppers.com

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7000 0520 0021 7551 8876

Subject: Koppers Inc.

Grenada Plant - May, 2003- POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the May, 2003 Discharge Monitoring Report for Koppers Inc. located in Tie Plant, MS. There were no excursions during this reporting period.

If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely

Haley P. Biddy

Environmental Supervisor



KOPPERS

May

Koppers

Utility P

May 16, 2003

Koppers Inc.
Utility Poles and Piling
P.O. Box 160

Tie Plant, MS 38960 Tel 662 226 4584 Fax 662 226 4588 www.koppers.com

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7000 0520 0021 7551 8852

Subject: Koppers Inc.

Grenada Plant -- April, 2003-POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the April, 2003 Discharge Monitoring Report for Koppers Inc. located in Tie Plant, MS. There were no excursions during this reporting period.

If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor



Koppers Inc.
Utility Poles and Piling
P.O. Box 160

Tie Plant, MS 38960 Tel 662 226 4584 Fax 662 226 4588 www.koppers.com

April 22, 2003

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7000 0520 0021 7551 8838

Subject Koppers Inc.

Grenada Plant - March 2003- POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the March, 2003 Discharge Monitoring Report for Koppers Inc. located in Tie Plant, MS. There were no excursions during this reporting period.

If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor



March 26, 2003

Koppers Inc.
Utility Poles and Piling
P.O. Box 160

Tie Plant, MS 38960 Tel 662 226 4584 Fax 662 226 4588 www.koppers.com

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7000 0520 0021 7551 9163

Subject: Koppers Inc.

Grenada Plant – February 2003- POTW Permit #MSP090300 Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the February, 2003 Discharge Monitoring Report for Koppers Inc. located in Tie Plant, MS. There were no excursions during this reporting period.

If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor



Utility Poles and Piling

Tie Plant, MS 38960 Tel 662 226 4584

Fax 662 226 4588

www.koppers.com

P.O. Box 160

March 5, 2003

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7000 0520 0021 7551 9149

Subject: Koppers Inc.

Grenada Plant – January 2003- POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the January, 2003 Discharge Monitoring Report for Koppers Inc. located in Tie Plant, MS. There was one excursion during this reporting period. On January 13th, Argus Analytical Inc. notified us of an exceedance regarding the daily max for pentachlorophenol. This incident was reported to both Mr. Clovis Tilghman (City of Grenada WWTP) and Mr. David Lee (OPC) by phone on the 13th. A follow up letter was then mailed to both Mr. Tilghman and Mr. Lee on January 17th.

MSDEQ contacted our facility on February 24th and informed us that our 2003 DMR reporting forms would be arriving late and there would be no penalty for late submittal.

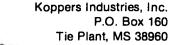
Also enclosed is a copy of a letter sent to Ms Linda Vaught (MSDEQ) notifying the agency of Koppers new name and logo. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor





Telephone: (601) 226-4584 FAX: (601) 226-4588



January 21, 2003

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7099 3400 0002 5201 0697

Subject: Koppers Industries, Inc.
Grenada Plant -- December, 2002 POTW Permit #MSP090300
Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the December, 2002 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. There are two excursions reported during this period. First is the daily discharge limit that was reported to MSDEQ via (Voice Mail) on December 25th followed by a letter (attached) explaining the event that caused this exceedance. Also reported this period was a BOD sample taken on December 24, 2002, which expired prior to sampling (see attached analytical results). The DMR reflects that only 4 weekly samples were used for the month of December.

If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor



Granada (. Dlie

Koppers Industries, P.O. Box Tie Plant, MS 38

Telephone: (601) 226-4 FAX: (601) 226-4

January 15, 2003

Mr. David Lee

Mississippi Department of Environmental Quality Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Certified Mail 7099 3400 0002 5201 1021

Subject: Koppers Industries, Inc.

Grenada Plant- POTW Permit # MSP090300

Notification of permit exceedence

Dear Mr. Lee

This letter is to notify you of an exceedance of Koppers Industries Inc. POTW permit # MSP090300. From a sample taken on January 7, 2002 we exceeded our daily maximum limit for Pentachlorophenol. Based on analytical results provided by Argus Analytical, Inc., provided one week following the sample collection, it was determined that the Pentachlorophenol concentration was 0.565 mg/L. We are permitted for a daily max of 0.360 mg/L.

Notification from Argus Analytical, Inc. was received by telephone on Monday January 13 at approximately 11:55 a.m. At that time the discharge was immediately terminated and process water was re-circulated for treatment. A make-up sample was taken for analysis on the 13th. Argus reported the results from this make-up sample on January 14th as non-detect for Pentachlorophenol. Around 9:00 a.m. on Wednesday the system was returned to operation, and discharge resumed. You and Mr. Clovis Tilghman of the City of Grenada POTW were notified via voice mail January 13th at approximately





Koppers Industries, Inc. P.O. Box 160 Tie Plant, MS 38960

> Telephone: (601) 226-4584 FAX: (601) 226-4588

December 30, 2002

Mr. David Lee

Mississippi Department of Environmental Quality Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385



Certified Mail 7099 3400 0002 5201 1083

Subject:

Koppers Industries, Inc.

Grenada Plant- POTW Permit # MSP090300

Notification of permit exceedence

Dear Mr. Lee

This letter is to notify you of an exceedence of Koppers Industries Inc. POTW permit # MSP090300. On December 24, 2002 we discharged to the City of Grenada 37,500 gallons. This amount exceeded our permit limit by 2,500 gallons. Due to our pump losing prime from the discharge tank we had approximately 10,000 gallons carry over from the previous day. The operator reduced the system, however the permitted limit was still exceeded. We are now in the process of installing an automatic shut off so that a desired volume can be pre-set and the system will shut down when that volume has been reached. I left a voice mail message to your office on December 25, 2002 around 10:45 a.m. concerning this matter. If you have any questions please call (662) 226-4585 ext. 40

Sincerely,

Haley P. Biddy

Environmental Supervisor

CC. Clovis Tilghman, City of Grenada-WWTP Tim Basilone, Koppers Pittsburgh



Koppers Inc.
Utility Poles and Piling
P.O. Box 160
Tie Plant, MS 38960
Tel 662 226 4584
Fax 662 226 4588
www.koppers.com

Ms Linda Vaught MSDEQ Communications Director P.O. Box 20305 Jackson, MS 39289

Re: Corporate Name Change

Dear Linda:

Please be advised that, effective February 24, 2003, Koppers Industries, Inc. changed its name to Koppers Inc. Effective immediately, Koppers Inc. will be using its new name on all submittals to your agency. There is no change in the structure of the company or change or transfer of ownership of the stock or assets associated with the name change.

Koppers Inc. has filed the necessary documents with the State of Pennsylvania to effect this name change and expects to receive documentation confirming the name change from the State within two to three weeks. Should you require a copy of these documents, please contact me.

Additionally, please forward to my attention any forms necessary to make changes to any permits or routine report forms and we will complete such forms and submit them as quickly as reasonably possible. Thank you for your attention to this matter.

Very truly yours,

Thomas L. Henderson

Plant Manager

Cc:

Corporate Services Group, Koppers Inc.

File







DAVID RONALD MUSGROVE, GOVERNOR MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

August 27, 2001

Mr. Thomas Henderson Plant Manager PO Box 160 Tie Plant, Mississippi 38960

Dear Mr. Henderson:

Re:

Koppers Industries Inc

Grenada County

Water Ref. No. MSP090300

Enclosed please find a copy of the proposed draft permit for the above referenced facility. The enclosed draft permit contains conditions that we intend to incorporate as part of the final permit.

Please note the following important changes, conditions and requirements for the draft permit as listed below:

• Both Nickel and Zinc have been added to the permit on a "Report Only" basis.

If you have any comments concerning the contents of the draft permit, please notify this office in writing no later than 15 days from the transmittal date listed above. If you would like to contact me to discuss any of these concerns, please call me at (601) 961-5561.

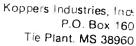
Sincerely,

Mary E. Coleman

Environmental Permits Division

Enclosures

876 PER20000004





P.O. Box 160 Tie Plant, MS 38960

Telephone (601) 226-4584 FAX (601) 226-4588

August 13, 2001

CERTIFIED MAIL

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

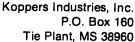
Subject: Koppers industries, inc. Grenada Plant - July 2001 POTW Permit DMR

Dear Sir or Madam:

Enclosed you will find a copy of the July 2001 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. There were no excursions during the month of July. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Blair Simpson **Treating Supervisor**





P.O. Box 160 Tie Plant, MS 38960

Telephone: (601) 226-4584 FAX: (601) 226-4588 RECEIVED

July 16, 2001

CERTIFIED MAIL

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Subject: Koppers Industries, Inc.

Grenada Plant - June 2001 POTW Permit DMR

Dear Sir or Madam:

Enclosed you will find a copy of the June 2001 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. In addition, the semi-annual arsenic, chromium, and copper analysis are enclosed with this month's report. There were no excursions during the month of June. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Blair Simpson

Treating Supervisor





STATE OF MISSISSIPPI

DAVID RONALD MUSGROVE, GOVERNOR MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

May 28, 2001

Mr. Thomas Henderson Koppers Industries Inc PO Box 160 Tie Plant, Mississippi 38960

Dear Mr. Henderson

Re: Koppers Industries Inc Grenada County Water Ref. No. MSP090300 (Revised Application)

This letter is to acknowledge receipt of your application on May 24, 2001. Within forty-five days after the date of receipt of the application, you will be notified either the submitted application is complete or of the major components required to complete the processing of your permit application.

If any of these actions involve construction activities, please notify us of your projected schedule for commencement of construction and completion of construction if this information is not already contained in the submitted application.

If you have any questions regarding the application or the permitting process, please contact Mary Coleman at (601) 961-5171.

Sincerely,

Teresa Dennington

Environmental Permits Division

876 PER20000004







STATE OF MISSISSIPPI

DAVID RONALD MUSGROVE, GOVERNOR MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

May 4, 2001

Mr. Blair Simpson Koppers Industries, Inc. PO Box 160 Tie Plant, Mississippi 38960

Dear Mr. Henderson:

Re: Koppers Industries, Inc.

Grenada County

Water Ref. No. MSP090300

Based upon review of the above referenced amended application received from Koppers Industries Inc. on February 9, 2001 the following deficiencies were noted:

- 1. On Page 3 of 31, Item 13, please list all facility discharges.
- 2. Additional testing is needed because your industry falls under the Timber Products Processing Point Source Category. You are responsible for the testing indicated on page 31 of the 2P application. Per our conversation on April 4, 2001, this testing includes the following GC/MS Fractions: Volatiles, Acids, Base/Neutrals, and Pesticides. Please revise all applicable application pages to reflect required testing. Please note that the "Testing Required" column must be marked for these type pollutants in addition to marking either "Believed Present" or "Believed Absent". Also, submit a copy of analysis results used for this application including test method and detection limits (i.e., laboratory bench sheets).
- 3. Please submit a revised process flow diagram and a water balance. The POTW discharge system information showed a combined effluent stream value instead of individual values. Individual values are needed for the process water effluent stream, the boiler blow down effluent stream, and the drip pad rain/process water effluent stream. An example line drawing is enclosed. Please refer to it for guidance. As previously stated, the line drawing and water balance must support your discharge request.
- 4. Please note that the laboratory bench sheets may be faxed to expedite time; however, an amended application with supplemental information must be formally submitted with a signature of an individual meeting signatory requirements of 40 CFR Part 403.12(l).

A copy of your application is enclosed. For your convenience, please note that this working copy contains highlighted sections requiring your attention. Please use this copy as guidance in preparing 876 PER20000004

your newly amended application.

Please address the above deficiencies on or before May 18, 2001. Upon receipt of this information, the Environmental Permits Division will continue the permitting process for your facility.

If you have any questions regarding the application or the permitting process, please contact me at (601) 961-5561.

Sincerely,

Mary E. Coleman

Environmental Permits Division

Enclosures

cc: Mr. Thomas Henderson, Plant Manager w/o Enclosures



STATE OF MISSISSIPPI DAME RONALD MUSGROVE GOVERNOR MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY CHAULES H. CHISOLM, EXECUTIVE DIRECTOR

May 4, 2001

Mr. Blair Simpson Koppers Industries, Inc. PO Box 160 Tie Plant, Mississippi 38960

Dear Mr. Henderson

Re: Koppers Industries, Inc.

Grenada County

Water Ref. No. MSP090300

Based upon review of the above referenced amended application received from Koppers Industries Inc. on February 9, 2001 the following deficiencies were noted:

- 1. On Page 3 of 31, Item 13, please list all facility discharges.
- 2. Additional testing is needed because your industry falls under the Timber Products
 Processing Point Source Category. You are responsible for the testing indicated on page 31
 of the 2P application. Per our conversation on April 4, 2001, this testing includes the
 following GC/MS Fractions: Volatiles, Acids, Base/Neutrals, and Pesticides. Please revise
 all applicable application pages to reflect required testing. Please note that the "Testing
 Required" column must be marked for these type pollutants in addition to marking either
 "Believed Present" or "Believed Absent". Also, submit a copy of analysis results used for
 this application including test method and detection limits (i.e., laboratory bench sheets).
- 3. Please submit a revised process flow diagram and a water balance. The POTW discharge system information showed a combined effluent stream value instead of individual values. Individual values are needed for the process water effluent stream, the boiler blow down effluent stream, and the drip pad rain/process water effluent stream. An example line drawing is enclosed. Please refer to it for guidance. As previously stated, the line drawing and water balance must support your discharge request.
- 4. Please note that the laboratory bench sheets may be faxed to expedite time; however, an amended application with supplemental information must be formally submitted with a signature of an individual meeting signatory requirements of 40 CFR Part 403.12(1).

A copy of your application is enclosed. For your convenience, please note that this working copy contains highlighted sections requiring your attention. Please use this copy as guidance in preparing 876 PER20000004

your newly amended application.

Please address the above deficiencies on or before May 18, 2001. Upon receipt of this information the Environmental Permits Division will continue the permitting process for your facility.

If you have any questions regarding the application or the permitting process, please contact me at (601) 961-5561.

Sincerely,

Mary E. Coleman

Environmental Permits Division

Enclosures

ce: Mr. Thomas Henderson, Plant Manager w/o Enclosures



Koppers Industries, Inc. P.O. Box 160 Tie Plant, MS 38960

May 15, 2001

Telephone: (601) 226-4584 FAX: (601) 226-4588

Ms. Mary E. Coleman
Environmental Permits Division
Mississippi Department of Environmental Quality
Office of Pollution Control
Post Office Box 10385
Jackson, MS 39289-0385

RE: Response to May 4, 2001 Letter Koppers Industries, Inc. Grenada County, Mississippi WATER PRE-TREATMENT Ref. No. MSP090300

Dear Ms. Coleman,

This is in response to your letter dated May 4, 2001 requesting information pursuant to deficiencies you noted on our application for renewal of our water pre-treatment permit dated February 9, 2001.

Enclosed you will find information provided in response to items 3 (process flow diagram and supporting information) and item 4, (laboratory bench sheets, excluding dioxin results), including test methods and detection limits. Upon further examination the process flow values were found to be slightly different than originally figured and are now more detailed and itemized, supporting information is enclosed in this fax.

A complete re-signed copy of our application (complying with 40 CFR Part 403.12 (1)), including original lab results, process flow diagrams, supporting information, and diexin test results will be sent to you no later than May 28, 2001.

We believe this information addresses the deficiencies outlined in items 3 and 4 of your May 4, 2001 letter. Please call me if you have any questions or would like to discuss this matter further.

I can be contacted at 662-226-4584, Extension 40.

Yours truly,

Blair Simpson Environmental Supervisor

Enclosures

CC. T. Basilone, Koppers Pittsburgh

April 25, 2001

CERTIFIED MAIL

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Subject: Koppers Industries, Inc.

Grenada Plant - March 2001 POTW Permit DMR

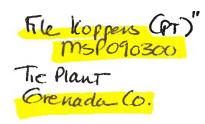
Dear Sir or Madam:

Enclosed you will find a copy of the March 2001 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. Koppers had no excursions during the month of March. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Blair Simpson Treating Supervisor

Cc: Tim Basilone



PHONE CONVERSATION RECORD

Date: 4/4/01	Time: 2:50 PM
Talked to: Thomas Henderson, Ste	eve Joy, & Blair Henderson
Of: Koppers Industries, Inc Tie	Plant, Grenada County, MS
Phone No. 662.226.4584 ext.11	
Re: 2/5/01 supplemental info	Permit No. MSP090300
☑ I placed call	☐ Party called
My Message	$\square_{\mathbf{Reply}}$
responsible for the testing outlined of needed. An example line drawing with all pertinent outfalls. You need a be justified and fully documented by the event to determine contaminated storesults sent to me ASAP. Follow-up original signature will be needed. To pesticides. I will proceed with draft;	of the category your industry falls under. You are in page 31 of the 2P application. A revised water balance is ill be faxed for guidance. Revise item 13 of application with iter estimate of the discharge flow. Request needs to be e line drawing and water balance. Consider a typical rainfall rmwater contribution to outflow. Get the analysis done and with a hardcopy. The revised application pages with esting is required for volatiles, acids, base/neutrals, and however, it will not be completed or released for review if you have additional questions after reviewing my
Party's □Message ⊠ Re	eply
They will have the samples pulled ar	nd testing done ASAP. They will fax results immediately.
Action or Follow up Faxed line drawing example to Mr. I	Henderson.
⊠ File Signed: <u>Mary E. Coleman</u>	uf. Coleman (See Attackeo)

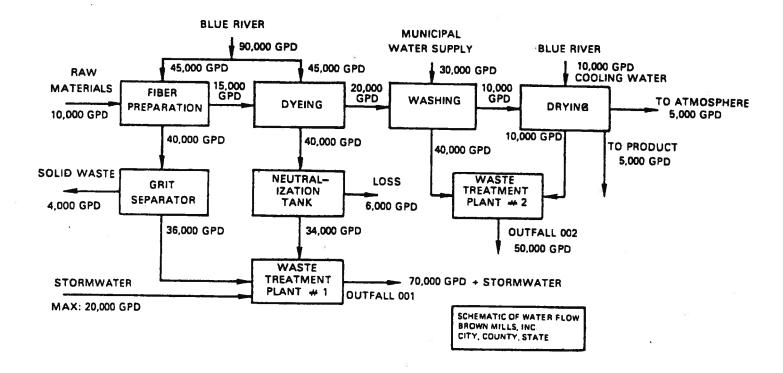


** Transmit Conf.Report **

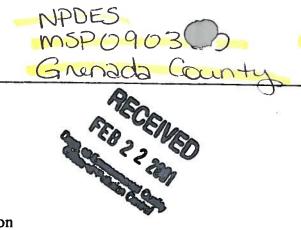
Apr 4 '01 15:07

DEQ OPC ENVIR PMT	S DIV>
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Post-it® Fax Note	7671	Date 4 · 3 · 0 # of pages ▶ 1
TO Mr. Thomas He	enderson	From M.E. Coleman
Co./Dept. Koppers		co. M DEG
Phone # 662.226.	4584	Phone # 601,961,5561
Fax # 66Z, ZZ6.4	5 <i>8</i> 8	Fax# 601.961.5703







Koppers Industries, Inc. P.O. Box 160 Tie Plant, MS 38960

> Telephone: (601) 226-4584 FAX: (601) 226-4588

February 17, 2001

CERTIFIED MAIL

Environmental Compliance Division Mississippi Dept. of Environmental Quality P.O. Box 10385 Jackson, MS 39289-0385

RE: Koppers Industries Inc.

Grenada, MS Facility
January 2001 Discharge Monitoring Report

Dear Sir or Madam,

Enclosed is the Discharge Monitoring Report referenced above. No excursions or discharges exceeding the permit limits occurred during the month of January 2001.

On December 13, 2000 Ms. Melissa Collier of the MSDEQ and Mr. Clovis Tilghman of the City of Grenada were notified by telephone that Koppers stopped discharging water to the POTW, due to analytical results that were received indicating pentachlorophenol concentrations in the treated effluent at levels exceeding the permitted discharge limit. At that time, Koppers began re-circulating treated process water through the treatment facility, and collecting additional samples on a periodic basis for laboratory analysis to assess pentachlorophenol levels.

Treated water was re-circulated from January 1 through January 19, 2001. On January 19 effluent sample analytical results were obtained indicating that all parameters were below the permitted discharge limits. Koppers notified Ms. Collier and Mr. Tilghman in a letter dated January 19 of the analytical results and that discharge activities to the POTW had resumed. We believe the extremely low ambient temperatures caused our biological treatment system to become less effective in reducing pentachlorophenol concentrations during December and January.

Please call me at 662-226-4584 extension 22 if you have any questions regarding this matter.

Yours truly

Steve Jov

Assistant Plant Manager

cc. T. Basilone, KII-Pittsburgh



The Plant

Koppers Industries, Inc. P.O. Box 160 Tie Plant, MS 38960

Telephone: (601) 226-4584 FAX: (601) 226-4588

FEB - 9 2001

February 5, 2001

Ms. Mary E. Coleman Environmental Permits Division Mississippi Department of Environmental Quality Office of Pollution Control Post Office Box 10385 Jackson, MS 39289-0385

RE: Response to January 10, 2001 Letter Koppers Industries, Inc. Grenada County, Mississippi WATER PRE-TREATMENT Ref. No. MSP090300

Dear Ms. Coleman,

This is in response to your letter dated January 10, 2001 requesting information pursuant to deficiencies you noted on our application for renewal of our water pre-treatment permit dated July 17, 2000.

Attached is a re-signed copy of our application, complying with 40 CFR Part 403.12 (1), and containing specific information in response to items numbered 1 through 6 outlined in your letter. Information that was changed or added to the original application in response to these deficiencies is highlighted in yellow.

Enclosed you will also find other information provided in response to items 7 and 8, including copies of analysis results for this application (including test methods and detection limits), and a process flow diagram and water balance with explanation.

We believe this information addresses each of the deficiencies outlined in your letter. Please call me if you have any questions or would like to discuss this matter further. I can be contacted at 662-226-4584, Extension 11.

Yours truly,

Thomas Henderson

Thomas L Henderson

Plant Manager

Enclosures

CC. T. Basilone, Koppers Pittsburgh



January 29, 2001

Mary E. Coleman MSDEQ Environmental Permits Division P.O. Box 10385 Jackson, MS. 39289-0385

Dear Ms. Coleman,

Our water usage at Koppers Industries can be broken down into three uses:

The first is the water that is produced as a waste from process, and boiler blow down water. This water is caught in a concrete containment area and treated through our wastewater treatment plant and then sent to the POTW. The volume of this use is about 10,000 gallons a day. Our permit allows us to treat and discharge 35,000 gallons a day. The 25,000 gallons a day difference is necessary to handle rainwater runoff that falls on containment areas.

The second water usage is the water that is drawn from our cooling pond and recirculated through the turbine on our boiler back to the cooling pond. This volume of water is about 360,000 gallons a day when the turbine is running, but very little water is lost in this process as the water continues to recirculate. Rainwater easily supplies the water demand needed to keep the cooling pond full, even during the dry summer months.

The third water usage is the sanitary water that supplies our bathrooms and washrooms. This water goes into septic systems and comprises 400 to 500 gallons a day.

I hope this clarifies any questions that arose while reading our application. Also I enclosed a copy of our analytical results for our wastewater sampling for 3 consecutive weeks to satisfy item #7 from your letter dated January 10, 2001.

Sincerely.

Steve Joy

Assistant Plant Mgr.

tor Kuppers Ind. (Grenada, MS.)

Well Water

Sanitary

water

400-500 gallons/day

Septic tank

Closed Loop system turbine cooling Loop

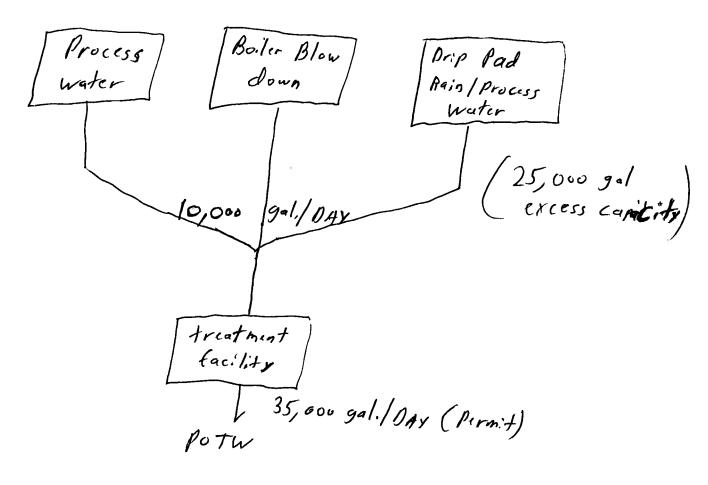
Cooling pond

1 360,000

Salloay

Turbine

POtw Discharge System



Logopers Und.
Koppers Und.
MSP 090300
Water/Pretreatment
RECEIVED
JAN 24 2001

January 19, 2001

Melissa Collier
MS Department of Environmental Quality
Office of Pollution Control
P. O. Box 10385
Jackson, MS 39289-0385

RE: Discharge Compliance Report, Koppers Industries Inc. – Grenada, Mississippi Facility,
Permit No. MSP090300

Dear Ms. Collier,

This letter serves as notification that the Koppers Industries Inc. (Koppers) facility in Grenada, Mississippi has resumed discharging treated process water to the City of Grenada Wastewater Treatment Plant. Notification was made by telephone on January 18, 2001 to you at the Mississippi Department of Environmental Quality (MSDEQ) and Mr. Clovis Tilghman of the City of Grenada Wastewater Treatment Plant that discharge activities would resume.

On the morning of December 19, 2000, Argus Analytical Laboratory (Argus) advised Koppers by telephone of analytical results for discharge monitoring samples collected on December 13, 2000. Argus indicated that the resulting concentration for pentachlorophenol was 4.24 mg/L. The permit limit for the daily maximum concentration of pentachlorophenol for the facility is 0.36 mg/L. After being advised of the results, discharge of water to the City of Grenada Wastewater Treatment Plant from the Koppers wastewater treatment facility was stopped. You and the City of Grenada Wastewater Treatment Plant were advised of this excursion and planned activities on December 19 by telephone and by letter.

Since December 19, process water was contained and re-circulated through the treatment system. Samples of the treated effluent from the wastewater treatment facility were collected periodically and sent for analysis at Argus Analytical. Based on the analytical results for samples collected from the system on January 17, which showed all parameters including pentachlorophenol to be below applicable permitted discharge limits, a determination was made to resume discharging treated effluent water from the wastewater treatment facility. Analytical results showing that latest samples are back in compliance are attached.

We believe the cause for this excursion is related to efficiency declines in our biological treatment system due to the sustained (low) ambient temperatures that occurred during this period. The cold weather was severe enough to drop the temperature of our aeration tank to 50 degrees F. An additional supply of heat has been added to this tank to prevent a similar occurrence. Monitoring will resume as required in the subject permit, and results will be submitted as required.

If you have any questions, please call me at 662-226-4584 ext. 22.

Sincerely,

Koppers Industries Inc.

Attachments

Cc: Tim Ba

Tim Basilone, Koppers Clovis Tilghman, Grenada January 12, 2001

CERTIFIED MAIL

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Subject: Koppers Industries, Inc.

Grenada Plant - December 2000 POTW Permit DMR

Dear sir or madam:

Enclosed you will find a copy of the December 2000 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. Koppers has a discharge violation on 12-13-00. Pentachlorophenol exceeded permit parameters during the week of 12-10-00. On 12-13-00, pentachlorophenol was recorded at 4.24 mg/L; the permit limit is 0.36 mg/L. The pentachlorophenol loading and concentration results exceeded the permit limits. Koppers Industries was notified on 12-19-00 by Argus Analytical. Koppers notified the MSDEQ (Melissa Collier) on 12-19-00. The wastewater treatment plant was shutdown, and all water was circulated throughout the system. The WWTP is still shutdown at this time. We believe the problem originated due to cold weather and freezing of system. If you have any questions, please call me at 662-226-4584 ext. 22.

Sincerely,

Steve Joy

Assistant Plant Manager

Cc: Tim Basilone

Attachments: Notification letter to Melissa Collier







STATE OF MISSISSIPPI

DAVID RONALD MUSGROVE, GOVERNOR MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY CHARLES H CHISOLM, EXECUTIVE DIRECTOR

January 10, 2001

Mr. Thomas Henderson, Plant Manager Koppers Industries, Inc. P.O. Box 160 Tie Plant, MS 38960

Dear Mr. Henderson:

Re: Koppers Industries, Inc. Grenada County, Mississippi WATER-PRE-TREATMENT Ref. No. MSP090300

Based upon review of the above referenced application received from Koppers Industries, Inc. on July 17, 2000, the following deficiencies were noted:

- 1. On Page 2, Item 7, SIC Codes, list all applicable standard industry codes for your facility.
- 2. On Page 3, Item 2d, Effluent No. of Analyses, provide the number of analyses used for all pollutants listed.
- 3. On Page 2, Item 9A, the discharge for your facility was reported at 35,000 gallons per day; however, water usage reported on Pages 3 and 5 indicate 370,000 gallons per day used. Please provide an explanation for flow difference and correct pages as necessary.
- 4. On Pages 7, 12, 13, 18, 19, and 25, Item 3d, Effluent No. of Analyses, provide the number of analyses used for all pollutants for which data was provided.
- 5. On Page 30, Item 18A, Treatment Units, indicate whether or not you provide treatment for your wastewater in the appropriate space provided.
- 6. On Page 30, Item 19, Contract Analysis Information, select the appropriate response to indicate whether or not the analysis reported in this application was performed by a contract laboratory or consulting firm.
- 7. Please submit a copy of analysis results used for this application including test method and detection limits.

- 8. Please submit a process flow diagram and a water balance.
- 9. Please note that an individual meeting the signatory requirements of 40 CFR Part 403.12(1) must sign Item 20. Enclosed is a copy of 40 CFR Part 403.12(1) for your reference.

Please address the above deficiencies by February 1, 2001. Upon receipt of this information, the Environmental Permits Division will continue the permitting process for your facility.

If you have any questions regarding the application or the permitting process, please contact me at (601) 961-5561.

Sincerely,

Mary E. Coleman

Environmental Permits Division

Enclosures

cc: Mr. Anthony Mayhan, Environmental and Safety Supervisor

the Industrial Users that are subject only to local Requirements.

(2) A summary of the status of Industrial User compliance over the report-

ing period;

(3) A summary of compliance and enforcement activities (including inspections) conducted by the POTW during the reporting period;

(4) A summary of changes to the POTW's pretreatment program that have not been previously reported to the Approval Authority; and

(5) Any other relevant information requested by the Approval Authority.

- Notification of changed discharge. All Industrial Users shall promptly notify the POTW in advance of any substantial change in the volume or character of pollutants in their discharge, including the listed or characteristic hazardous wastes for which the Industrial User has submitted initial notification under 40 CFR 403.12(p).
- (k) Compliance schedule for POTW's. The following conditions and reporting requirements shall apply to the compliance schedule for development of an approvable POTW Pretreatment Program required by § 403.8.
- (1) The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the development and implementation of a POTW Pretreatment Program (e.g., acquiring required authorities, developing funding mechanisms, acquiring equipment);

(2) No increment referred to in paragraph (h)(1) of this section shall exceed nine months:

- (3) Not later than 14 days following each date in the schedule and the final date for compliance, the POTW shall submit a progress report to the Approval Authority including, as a minimum, whether or not it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with this increment of progress, the reason for delay, and the steps taken by the POTW to return to the schedule established. In no event shall more than nine months elapse between such progress reports to the Approval Authority.
- (1) Signatory requirements for industrial user reports. The reports required by paragraphs (b), (d), and (e) of this sec-

tion shall include the certification statement as set forth §403.6(a)(2)(ii), and shall be signed as follows:

- By a responsible corporate officer, if the Industrial User submitting the reports required by paragraphs (b), (d) and (e) of this section is a corporation. For the purpose of this paragraph, a responsible corporate officer means (i) a president, secretary, treasurer, or vicepresident of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operation facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- (2) By a general partner or proprietor if the Industrial User submitting the reports required by paragraphs (b), (d) and (e) of this section is a partnership or sole proprietorship respectively.
- (3) By a duly authorized representative of the individual designated in paragraph (1)(1) or (1)(2) of this section
- (i) The authorization is made in writing by the individual described in paragraph (1)(1) or (1)(2);
- (ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the Industrial Discharge originates, such as the position of plant manager, operator of a well, or well field superintendent, or a position of equivalent responsibility, or having overall responsibility for environmental matters for the company;
- (iii) the written authorization is submitted to the Control Authority.
- (4) If an authorization under paragraph (1)(3) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the company, a new authorization satisfying the requirements of paragraph (1)(3) of this section

§ 403.12

must be submitted to the Control Authority prior to or together with any reports to be signed by an authorized representative.

(m) Signatory requirements for POTW reports. Reports submitted to the Approval Authority by the POTW in accordance with paragraph (h) of this section must be signed by a principal executive officer, ranking elected official or other duly authorized employee if such employee is responsible for overall operation of the POTW.

(n) Provisions Governing Fraud and False Statements: The reports and other documents required to be submitted or maintained under this sec-

tion shall be subject to:

(1) The provisions of 18 U.S.C. section 1001 relating to fraud and false statements:

- (2) The provisions of sections 309(c)(4) of the Act, as amended, governing false statements, representation or certification; and
- (3) The provisions of section 309(c)(6) regarding responsible corporate officers.
- (o) Record-keeping requirements. (1) Any Industrial User and POTW subject to the reporting requirements established in this section shall maintain records of all information resulting from any monitoring activities required by this section. Such records shall include for all samples:
- (i) The date, exact place, method, and time of sampling and the names of the person or persons taking the samples;
- (ii) The dates analyses were performed;
 - (iii) Who performed the analyses;
- (iv) The analytical techniques/methods use; and
 - (v) The results of such analyses.
- (2) Any Industrial User or POTW subject to the reporting requirements established in this section shall be required to retain for a minimum of 3 years any records of monitoring activities and results (whether or not such monitoring activities are required by this section) and shall make such records available for inspection and copying by the Director and the Regional Administrator (and POTW in the case of an Industrial User). This period of retention shall be extended during the course of any unresolved litiga-

tion regarding the Industrial User or POTW or when requested by the Director or the Regional Administrator.

(3) Any POTW to which reports are submitted by an Industrial User pursuant to paragraphs (b), (d), (e), and (h) of this section shall retain such reports for a minimum of 3 years and shall make such reports available for inspection and copying by the Director and the Regional Administrator. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Industrial User or the operation of the POTW Pretreatment Program or when requested by the Director or the Regional Administrator.

(p)(1) The Industrial User shall notify the POTW, the EPA Regional Waste Management Division Director, and State hazardous waste authorities in writing of any discharge into the POTW of a substance, which, if otherwise disposed of, would be a hazardous waste under 40 CFR part 261. Such notification must include the name of the hazardous waste as set forth in 40 CFR part 261, the EPA hazardous waste number, and the type of discharge (continuous, batch, or other). If the Industrial User discharges more than 100 kilograms of such waste per calendar month to the POTW, the notification shall also contain the following information to the extent such information is known and readily available to the Industrial User: An identification of the hazardous constituents contained in the wastes, an estimation of the mass and concentration of such constituents in the wastestream discharged during that calendar month, and an estimation of the mass of constituents in the wastestream expected to be discharged during the following twelve months. All notifications must take place within 180 days of the effective date of this rule. Industrial users who commence discharging after the effective date of this rule shall provide the notification no later than 180 days after the discharge of the listed or characteristic hazardous waste. Any notification under this paragraph need be submitted only once for each hazardous waste discharged. However, notifications of changed discharges must be submitted under 40 CFR 403.12 (j).





STATE OF MISSISSIPPI

DAVID RONALD MUSGROVE, GOVERNOR MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

August 27, 2001

1 4222 UNITED STATES POSTAL SERVICE Sender: Please print y A signature upon delivery Post Office Koppers Industries Inc Re: Grenada County Water Ref. No. MSP090300 Certified Mail Provides:

A mailing receipt IMPORTANT: Save this receipt and present it when making an inquiry. A record of delivery kept by the Postal Service A unique identifier for your mailpiece sed draft permit for the above referenced facility. The that we intend to incorporated as part of the final tes, conditions and requirements for the draft permit as d to the permit on a "Report Only" basis. e contents of the draft permit, please notify this office in insmittal date listed above. If you would like to contact se call me at (601) 961-5561. Sincerely, Mary E. Coleman **Environmental Permits Division**

876 PER20000004



Koppers Industries, Inc. P.O. Box 160 Tie Plant, MS 38960

SEP 1 0 2001
Since of Pollution & Quelle

Telephone (601) 226-4584 FAX (601) 226-4588

September 5, 2001

Ms. Mary E. Coleman
Environmental Permits Division
Mississippi Department of Environmental Quality
Office of Pollution Control
Post Office Box 10385
Jackson, MS 39289-0385

RE: Koppers Industries, Inc. Grenada County, Mississippi WATER PRE-TREATMENT Ref. No. MSP090300

Dear Ms. Coleman,

This is in response to your letter dated August 27, 2001 and our phone conversation on September 5, 2001 requesting comment on the draft Water Pre-Treatment Permit.

After reviewing the draft, Koppers Industries Inc., has no comment on the contents of the proposed permit.

Yours truly,

Blair Simpson

Environmental Supervisor

CC. T. Basilone, Koppers Pittsburgh



September 17, 2001

CERTIFIED MAIL

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Subject: Koppers Industries, Inc.

Grenada Plant - August 2001 POTW Permit DMR

Dear Sir or Madam:

Enclosed you will find a copy of the August 2001 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. There were no excursions during the month of August. If you have any

questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Blair Simpson Treating Supervisor

s during the month of	August. If you	have any		+
Complete THIS SECTION ON DELIVERY A. Received by (Please Print Clearly) Thomas L. Hanckeson C. Signature X. Supature D. Is delivery address different from item 1? D. Is delivery address different from item 1.2 D. Is delivery from the fro	3. Service Type	ArCertified Mail Express Mail Receipt for Merchandise	1099 3400 0014 (701 4192	
SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	MR. THOMAS HENDERSON LANT MANAGER COPPERS INDUSTRIES INC	O BOX 160 TE PLANT, MS 38960	2. Article Number (Copy from service label)	PS Form 3811, July 1999 EPD-ARS KOPPEAS M
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Original of Environmental Over

Koppers Industries, Inc. P.O. Box 160 Tie Plant, MS 38960

> Telephone: (601) 226-4584 FAX: (601) 226-4588

November 13, 2002

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7000 0520 0021 7551 9101

Subject: Koppers Industries, Inc.

Grenada Plant - October 2002 POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the October 2002 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. There were no excursions during this reporting period. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor

September 27, 2002

Certified Mail 7000 0520 0021 7551 9033

Mr. David Lee
Office of Pollution Control
P.O. BOX 10385
Jackson, MS 39289-0385

Subject:

Koppers Industries, Inc.

Tie Plant, Mississippi

POTW Permit # MSP090300

Notification of Permit Exceedence

Dear Mr. Lee,

This letter is to notify you of an exceedence of the daily discharge volume of effluent water at the Koppers Industries Inc. (Koppers) facility in Tie Plant, Mississippi, as established in the State of Mississippi Water Pollution Control Indirect Discharge Permit #MSP090300.

On September 26, 2002, 36,700 gallons of treated effluent process water was discharged to the City of Grenada POTW. The permitted discharge level for our facility is 35,000 gallons/day.

This exceedence occurred while discharge of effluent water was maximized due to excessive process water accumulated on the site from precipitation occurring over the prior 48 hours. In an effort to prevent a reoccurrence of this nature we plan to monitor the system more closely during periods of heavy rainfall.

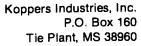
Sincerely,

Haley P. Biddy

Environmental Supervisor

Haly P. Ber

CC. Clovis Tilghman, Grenada-WWTP Tim Basilone, Koppers Pittsburgh







October 14, 2002

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7000 0520 0021 7551 9057

Subject: Koppers Industries, Inc.

Grenada Plant - September, 2002 POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

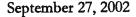
Enclosed you will find a copy of the September, 2002 Discharge Monitoring Report, also included is the semi-annual metals report for period July 1st – December 31st 2002. for Koppers Industries, Inc. located in Tie Plant, MS. There was one (1) excursions during this reporting period. Mr. David Lee of the Office of Pollution Control was notified of this excursion. Attached is a copy of the notification letter sent to Mr. Lee on September 27, 2002. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor

OCT 1 2002
Since of Pollution Common of Pollut



Certified Mail 7000 0520 0021 7551 9033

Mr. David Lee
Office of Pollution Control
P.O. BOX 10385
Jackson, MS 39289-0385

Subject:

Koppers Industries, Inc.

Tie Plant, Mississippi

POTW Permit # MSP090300

Notification of Permit Exceedence

Dear Mr. Lee,

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This exceedence occurred while discharge of effluent water was maximized due to excessive process water accumulated on the site from precipitation occurring over the prior 48 hours. In an effort to prevent a reoccurrence of this nature we plan to monitor the system more closely during periods of heavy rainfall.

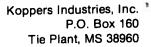
Sincerely,

Haley P. Biddy

Environmental Supervisor

Hales & Bedds

CC. Clovis Tilghman, Grenada-WWTP Tim Basilone, Koppers Pittsburgh





September 12, 2002

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7000 0520 0021 7551 8999

Subject: Koppers Industries, Inc.

Grenada Plant -- August 2002 POTW Permit #WSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the August 2002 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. There were no excursions during this reporting period. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor



Koppers Industries, Inc. P.O. Box 160 Tie Plant, MS 38960

> Telephone: (601) 226-4584 FAX: (601) 226-4588

August 20, 2002

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7000 0520 0021 7551 8739

Subject: Koppers Industries, Inc.

Grenada Plant - July 2002 POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

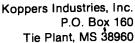
Dear Sir or Madam:

Enclosed you will find a copy of the July 2002 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. There were no excursions during this reporting period. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor





P.O. Box 160 Tie Plant, MS 38960

Telephone: (601) 226-4584 FAX: (601) 226-4588

DEQ

July 12, 2002

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

CERTIFIED MAIL 7000 0520 0021 7551 8685

Subject: Koppers Industries, Inc.

Grenada Plant - June 2002 POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

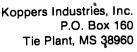
Dear Sir or Madam:

Enclosed you will find a copy of the June 2002 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. In addition is the semi-annual metals report for January-June 2002. There were no excursions during this reporting period. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor











June 12, 2002

CERTIFIED MAIL 7000 0520 0021 7551 8609

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Subject: Koppers Industries, Inc.

Grenada Plant - May 2002 POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

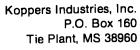
Dear Sir or Madam:

Enclosed you will find a copy of the May 2002 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. There were no excursions during this reporting period. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor





May 20, 2002

CERTIFIED MAIL 7000 0520 0021 7551 8562

MAY 2 2 2002

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Subject: Koppers Industries, Inc.

Grenada Plant - April 2002 POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the April 2002 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. There were no excursions during this reporting period. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor



Koppers Industries, Inc. P.O. Box 16 Tie Plant, MS 38960

> Telephone (601) 226-4584 FAX: (601) 226-4588

April 11, 2002

CERTIFIED MAIL 7000 0520 0021 7551 8548

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Subject: Koppers Industries, Inc.

Grenada Plant - March 2002 POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

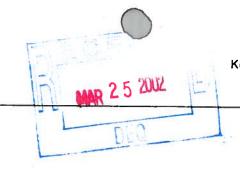
Enclosed you will find a copy of the March 2002 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. There were no excursions during the month of February. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Haley P. Biddy

Environmental Supervisor





Koppers Industries, Inc. P.O. Box 160 Tie Plant, MS 38960

> Telephone: (601) 226-4584 FAX: (601) 226-4588

March 20, 2002

CERTIFIED MAIL 7000 0520 0021 7551 8500

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Subject: Koppers Industries, Inc.

Grenada Plant - February 2002 POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the February 2002 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. There were no excursions during the month of February. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Blair Simpson

Environmental Supervisor



March 8, 2002

Mr. Clovis Tilghman City of Grenada Waste Water Treatment Plant P.O. Box 310 Grenada, MS 38901



RE: Facility Change Notification

Koppers Industries, Inc., Grenada, Mississippi

Water Ref. No. MSP090300

Dear Mr. Tilghman,

Koppers Industries, Inc. (Koppers) is providing this notification to the City of Grenada Waste Water Treatment Plant that plans to replace, in kind, the existing oil/water separator located at the Koppers facility in Grenada, Mississippi are currently being developed. This project is necessary in order to replace the existing oil/water separator with equipment that is located within secondary containment. The existing separator will be taken out of service, and its use will be discontinued.

The existing oil/water separator consists of an above ground concrete structure with a capacity to hold $\sim 66,000$ gallons of wastewater. The new oil/water separator, which will replace the existing separator in kind, will consist of an above ground tank with the capacity to hold $\sim 40,000$ gallons of wastewater. The tank will be constructed of steel, with an open top, and located in the general wood treating operating area near the existing separator.

This change is a replacement in kind, and will not cause any change in discharge volume or location, or other changes in operations or conditions, which may result in a new or increased discharge of waste. In addition, permit terms and conditions will remain applicable as written in the permit, without change.

Koppers will commence activities for the construction of the new separator in April 2002. Use of the new separator will begin during April or May 2002. At that time the former separator will be emptied, cleaned, and taken out of service. Materials resulting from cleaning activities will be disposed in accordance with applicable regulations.

If you have any questions or wish to discuss this matter, please call me at (662)226-4584, extension 11.

Yours truly,

Thomas L. Henderson

Plant Manager

cc. T. Basilone, KII – Pittsburgh

Mary E. Coleman, Environmental Permits Division, MDEQ



STATE OF MISSISSIPPI

DAVID RONALD MUSGROVE, GOVERNOR MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

03/12/2002

Mr. Thomas Henderson Koppers Industries Inc PO Box 160 Tie Plant, Mississippi 38960

Dear Mr. Henderson:

Re:

Inspection Report Koppers Industries Inc

Tie Plant, Grenada County

Hazardous Waste-EPA ID

MSD007027543

Hazardous Waste-TSD HW8854301

Water-Pretreatment MSP090300

Enclosed is a copy of the RCRA and water inspection report(s) completed as a result of this office's inspection at Koppers Industries Inc on 1/16/02. The report(s) should be used by you as a guide for complying with requirements and limitations stated in your permit(s).

Facility was in compliance with applicable regulations.

If you have any questions concerning this matter, please contact me at (601)961-5171.

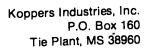
Sincerely,

Azzam Abumirshid

Timber and Wood Branch

Environmental Compliance and Enforcement Division

Agency Interest No. 876 INS20020001





February 20, 2002

CERTIFIED MAIL 7000 0520 0021 7551 8432

HECEIVED FEB 2 2 2002

legt, of Environmental Quality Office of Pollution Control

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Subject: Koppers Industries, Inc.

Grenada Plant - January 2002 POTW Permit #MSP090300 Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the January 2002 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. During the month of January Koppers exceeded permitted limits for pentachlorophenol. A letter was sent to the Mr. David Lee of the MSDEQ on January 4, 2002 providing notification of the excursion (attached).

Koppers was advised by Argus Analytical Laboratory (testing lab for Koppers) on January 3, 2002 of analytical results for treated effluent samples collected on December 19th and 26th, 2001. Upon learning of the analytical results discharge to the City of Grenada Waste Water Treatment Plant was ceased. Coincidently, treated effluent samples were collected as part of our monthly discharge monitoring program on January 2, 2002 and forwarded to the laboratory for analysis. Laboratory results for these samples, which were received on January 7, 2002, indicated pentachlorophenol levels exceeded the permitted limits.

Process water was re-circulated and through the water treatment system, and samples were obtained and analyzed periodically from January 4, 2002 through January 22, 2002. After obtaining sample analytical results indicating pentachlorophenol levels were below permitted limits (attached), Koppers resumed discharging treated water to the City of Grenada Wastewater Treatment Plant on January 23, 2002. Proper notifications were made to the City of Grenada by telephone and in writing of the commencement of discharge activities.

• Page 2 February 20, 2002

During the month of January 2002, Koppers discharged treated water to the City of Grenada Wastewater Treatment Plant for a total of 12 days from January 1-3, 2002 and January 23-31, 2002.

If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Blair R. Simpson

Environmental Supervisor

Bei R. Syn





Koppera Industries, Inc. P.O. Box 160 Tie Plant, MS 38960

> Telephone: (601) 226-4584 FAX: (601) 226-4588

January 28, 2002

Mr. David Lee Mississippi Department of Environmental Quality Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Subject: Follow-up Notification

Waste Water Pretreatment Permit #MSP090300 Koppers Industries, Inc. – Grenada, Mississippi

Dear Mr. Lee,

This letter will serve as notification that Koppers Industries, Inc. (Koppers) facility in Grenada, Mississippi has resumed discharging treated wastewater to the City of Grenada Wastewater Treatment Plant on January 23, 2002 (reference letter sent to your office dated January 4, 2002). Results from laboratory analysis (attached) indicate that the effluent pentachlorophenol concentration is below the permitted discharge level.

Telephone notification was made to your office and the City of Grenada Wastewater Treatment plant on January 23, 2002 prior to beginning discharge.

If you have any questions call me at 662-226-4584, extension 40.

Sincerely,

Blair R. Simpson

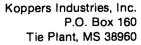
Environmental Supervisor

Encl.

cc:

Mr. Clovis Tilghman (City of Grenada Wastewater Treatment Plant)

Tim Basilone - Koppers Industries, Inc.





January 18, 2002

CERTIFIED MAIL

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Subject: Koppers Industries, Inc.

Grenada Plant - December 2001 POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the December 2001 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. During the month of December Koppers exceeded four permitted limits for pentachlorophenol. Please reference the letter sent to MSDEQ to the attention of Mr. David Lee (attached) dated January 4, 2002 for explanation of the exceedence. In addition, the semi-annual analyses for arsenic, chromium, copper, nickel, and zinc are enclosed. There were no excursions for the semi-annual permit parameters.

If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Blair R. Simpson

Environmental Supervisor

Ri R. Sign





Koppers Industries, Inc. P.O. Box 160 Tie Plant, MS 38960

> Telephone (601) 226-4584 FAX: (601) 226-4588

January 4, 2002

Mr. David Lee
MS Department of Environmental Quality
Office of Pollution Control
P.O. Box 10385
Jackson, MS 39289-0385

Subject:

Notice of Deviation of Permit Requirements Waste Water Pretreatment Permit #MSP090300 Koppers Industries, Inc. – Grenada, Mississippi

Dear Mr. Lee,

This letter serves as notification for the Koppers Industries, Inc. (Koppers) facility in Grenada, Mississippi concerning a discharge excursion in our treated process effluent water. Sample collected on December 19 and December 26 were found to contain pentachlorophenol (penta) at levels exceeding our permit limit. The permit limit for penta is 0.36 mg/l; the laboratory results for effluent samples indicated concentrations of 0.919 and 2.54 mg/l, respectively (attached).

On January 3, 2002 at 2:30PM Argus Analytical Laboratory (Argus) informed Koppers by telephone of the analytical results for the two sampling events. At 2:35PM January 3, 2002 discharge of wastewater from the Koppers facility to the Grenada City POTW was ceased.

At 3:20PM on January 3, 2002 Mr. David Lee (MSDEQ) was notified by telephone. Repeated attempts were made from 2:45PM – 5:00PM, January 3, 2002 to notify the City of Grenada Waste Water Treatment Plant but no one could be contacted as the phone line was busy. At 5:15PM a message was left with the Grenada City Wastewater Plant detailing the situation. A confirmation call was made to Mr. Clovis Tilghman of the Grenada City Wastewater Treatment Plant at 7:15AM on January 4, 2002.

Since January 3, 2002 at 2:35PM wastewater has been re-circulated through the treatment system, without being discharged. Samples have been and continue to be taken every other day and sent for analysis to monitor penta levels.

Due to the sudden and sustained (low) ambient temperature we experienced efficiency declines in our biological treatment system, which allowed penta levels to remain higher than normal. In addition, our schedule for wasting (method of keeping activated sludge in optimal condition and age) will need to be adjusted for conditions when ambient temperatures decline. To enable temperature to be controlled in order to maintain

optimal biological activity, an additional heat source was added to the system. For wasting control a procedure will be developed and implemented describing the schedule and procedure wasting, including under conditions that are less than optimal.

Other measures taken to prevent and for the mitigation of upsets of this nature in the future include use of different pre-mix polymers and maintenance of a steady supply of microorganisms for introduction into the system. Koppers will consult with its wastewater chemical supplier to augment this process.

We will notify you by telephone and in writing once laboratory results from sampling events indicate penta levels return levels below the permit limit. Once such results are obtained and notification has been made, Koppers will resume discharging treated effluent water to the City of Grenada Wastewater Treatment Plant.

If you have any questions, please call me at 662-226-4584, extension 40.

Sincerely,

Blair R. Simpson

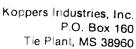
Koppers Industries, Inc

Bu R. Sin

Encl.

cc: Tim Basilone, Koppers – Pittsburgh

Clovis Tilghman, Grenada City Wastewater Treatment Plant





File CO

Telephone (601) 226-4584 FAX (601) 226-4588

January 4, 2002

Mr. David Lee
MS Department of Environmental Quality
Office of Pollution Control
P.O. Box 10385
Jackson, MS 39289-0385

Subject:

Notice of Deviation of Permit Requirements Waste Water Pretreatment Permit #MSP090300 Koppers Industries, Inc. – Grenada, Mississippi

Dear Mr. Lee,

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Other measures taken to prevent and for the mitigation of upsets of this nature in the future include use of different pre-mix polymers and maintenance of a steady supply of microorganisms for introduction into the system. Koppers will consult with its wastewater chemical supplier to augment this process.

We will notify you by telephone and in writing once laboratory results from sampling events indicate penta levels return levels below the permit limit. Once such results are obtained and notification has been made, Koppers will resume discharging treated effluent water to the City of Grenada Wastewater Treatment Plant.

If you have any questions, please call me at 662-226-4584, extension 40.

Sincerely,

Blair R. Simpson

Koppers Industries, Inc.

Bu R. Sin

Encl.

cc: Tim Basilone, Koppers - Pittsburgh

Clovis Tilghman, Grenada City Wastewater Treatment Plant





Koppers Industries, Inc. P.O. Box 160 Tie Plant, MS 38960

Telephone: (601) 226-4584 FAX: (601) 226-4588

January 4, 2002

Mr. David Lee
MS Department of Environmental Quality
Office of Pollution Control
P.O. Box 10385
Jackson, MS 39289-0385

Subject:

Notice of Deviation of Permit Requirements
Waste Water Pretreatment Permit #MSP090300
Koppers Industries, Inc. – Grenada, Mississippi

Dear Mr. Lee,

This letter serves as notification for the Koppers Industries, Inc. (Koppers) facility in Grenada, Mississippi concerning a discharge excursion in our treated process effluent water. Sample collected on December 19 and December 26 were found to contain pentachlorophenol (penta) at levels exceeding our permit limit. The permit limit for penta is 0.36 mg/l; the laboratory results for effluent samples indicated concentrations of 0.919 and 2.54 mg/l, respectively (attached).

On January 3, 2002 at 2:30PM Argus Analytical Laboratory (Argus) informed Koppers by telephone of the analytical results for the two sampling events. At 2:35PM January 3, 2002 discharge of wastewater from the Koppers facility to the Grenada City POTW was ceased.

At 3:20PM on January 3, 2002 Mr. David Lee (MSDEQ) was notified by telephone. Repeated attempts were made from 2:45PM – 5:00PM, January 3, 2002 to notify the City of Grenada Waste Water Treatment Plant but no one could be contacted as the phone line was busy. At 5:15PM a message was left with the Grenada City Wastewater Plant detailing the situation. A confirmation call was made to Mr. Clovis Tilghman of the Grenada City Wastewater Treatment Plant at 7:15AM on January 4, 2002.

Since January 3, 2002 at 2:35PM wastewater has been re-circulated through the treatment system, without being discharged. Samples have been and continue to be taken every other day and sent for analysis to monitor penta levels.

Due to the sudden and sustained (low) ambient temperature we experienced efficiency declines in our biological treatment system, which allowed penta levels to remain higher than normal. In addition, our schedule for wasting (method of keeping activated sludge in optimal condition and age) will need to be adjusted for conditions when ambient temperatures decline. To enable temperature to be controlled in order to maintain

optimal biological activity, an additional heat source was added to the system. For wasting control a procedure will be developed and implemented describing the schedule and procedure wasting, including under conditions that are less than optimal.

Other measures taken to prevent and for the mitigation of upsets of this nature in the future include use of different pre-mix polymers and maintenance of a steady supply of microorganisms for introduction into the system. Koppers will consult with its wastewater chemical supplier to augment this process.

We will notify you by telephone and in writing once laboratory results from sampling events indicate penta levels return levels below the permit limit. Once such results are obtained and notification has been made, Koppers will resume discharging treated effluent water to the City of Grenada Wastewater Treatment Plant.

If you have any questions, please call me at 662-226-4584, extension 40.

Sincerely,

Blair R. Simpson

Koppers Industries, Inc

Encl.

cc: Tim Basilone, Koppers - Pittsburgh

Bu R. Sin

Clovis Tilghman, Grenada City Wastewater Treatment Plant

NELAP Accredited LELAP 04023

235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

To: Koppers Company

1 Koppers Drive

Tie Plant, MS 38960

ATTN: Steve Joy

Facility Discharge

Weekly Requirements

Sample Description:

Project ID/Location:

Outfall 001

Sample Matrix:

WATER

Project Number:

Date Reported: 01/03/02

Date Sampled:

12/19/01 Time Sampled: 10:00

Sampled by:

M. Harper

12/20/01 **Date Received:**

Sample Number: BB21847

Page Number:

1

Parameter	Result	Det Limit	Units	Method	Analysts	Date
Biochemical Oxygen Demand	102	1.0	mg/L	405.1	MWS	12/21/01
Oil & Grease	10.3	6.7	mg/L	1664A	SMB	12/28/01
Total Suspended Solids	2	1.0	mg/L	160.2	BB	12/26/01
Phenolic Compounds						
4-Chloro-3-methylphenol	ND	0.210	mg/L	625	RLT	12/31/01
2-Chlorophenol	ND	0.210	mg/L	625	RLT	12/31/01
2,4-Dichlorophenol	ND	0.210	mg/L	625	RLT	12/31/01
2,4-Dimethylphenol	ND	0.210	mg/L	625	RLT	12/31/01
4,6-Dinitro-2-methylphenol	ND	0.525	mg/L	625	RLT	12/31/01
2,4-Dinitrophenol	ND	0.525	mg/L	625	RLT	12/31/01
2-Nitrophenol	ND	0.210	mg/L	625	RLT	12/31/01
4-Nitrophenol	ND	0.525	mg/L	625	RLT	12/31/01
Pentachlorophenol	0.919	0.525	mg/L	625	RLT	12/31/01
Phenol	ND	0.210	mg/L	625	RLT	12/31/01
2,4,6-Trichlorophenol	ND	0.210	mg/L	625	RLT	12/31/01

ND = Not Detected

Quality Assurance/Quality Control

B. G. Giessner, Ph.D.

argsmpr1



235 Highpoint Drive

Ridgeland, Mississippi 39157

Telephone: 601/957-2676 FAX: 601/957-1887

NELAP Accredited
LELAP 04023

To: Koppers Company

1 Koppers Drive

Tic Plant, MS 38960

ATTN: Steve Joy

Date Reported: 01/07/02

Date Sampled: 12/26/01

Time Sampled: 10:00

Sampled by:

MH

Project ID/Location:

Facility Discharge

Weekly Requirements

Sample Description:

Outfall 001

Sample Matrix:

WATER

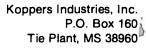
Project Number:

Date Received: 12/27/01

Sample Number: BB22111

Page Number: 1

				107		
Parameter	Result	Det Limit	Units	Method	Analysis	Date
Biochemical Oxygen Demand	37.5	1.0	nıg/L	405.1	MWS	12/28/01
Total Suspended Solids	36	1.0	mg/L	160.2	MLO	12/31/01
Oil & Grease	PENDIN	G	mg/l.	1664A		
Phenolic Compounds						
4-Chloro-3-methylphenol	CIN	0.042	mg/L	625	RLT.	12/31/01
2-Chlorophenol	ND	0.042	mg/L	625	RI.T	12/31/01
2,4-Dichlorophenol	ND	0.042	mg/L	625	RLT	12/31/01
2,4-Dimethylphenol	CIN	0.042	mg/L	625	KLT	12/31/01
4,6-Dinitro-2-methylphenol	ND	0.105	mg/L	625	RLT	12/31/01
2,4-Dinitrophenol	ND	0.105	mg/L	625	RLT	12/31/01
2-Nitrophenol	ND	0.042	mg/L	625	RLT	12/31/01
4-Nitrophenol	ND	0.105	mg/L	625	RLT	12/31/01
Pentachlorophenol	2.54	0.105	mg/L	625	RLT	12/31/01
Phenol	ND	0.042	mg/l.	625	RLT	12/31/01
2,4,6-Trichlorophenol	ND	0.042	mg/l.	625	RLT	12/31/01







Telephone: (601) 226-4584 FAX: (601) 226-4588

December 14, 2001

CERTIFIED MAIL

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Subject: Koppers Industries, Inc.
Grenada Plant – November 2001 POTW Permit #MSP090300
Discharge Monitoring Report (DMR)

Dear Sir or Madam:

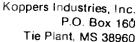
Enclosed you will find a copy of the November 2001 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. There were no excursions during the month of November. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Blair Simpson

Environmental Supervisor

Cc: Tim Basilone - Koppers





P.O. Box 160

Telephone: (601) 226-4584 FAX: (601) 226-4588

November 12, 2001

CERTIFIED MAIL

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Subject: Koppers Industries, Inc.

Grenada Plant - October 2001 POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the October 2001 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. There were no excursions during the month of October. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Blair Simpson

Environmental Supervisor

Cc: Tim Basilone - Koppers



Telephone (601) 226-4584 FAX: (601) 226-4588

October 11, 2001

CERTIFIED MAIL

Environmental Compliance Division Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Subject: Koppers Industries, Inc.

Grenada Plant - September 2001 POTW Permit #MSP090300

Discharge Monitoring Report (DMR)

Dear Sir or Madam:

Enclosed you will find a copy of the September 2001 Discharge Monitoring Report for Koppers Industries, Inc. located in Tie Plant, MS. There were no excursions during the month of September. If you have any questions, please call me at 662-226-4584 ext. 40.

Sincerely,

Blair Simpson

Environmental Supervisor

Cc: Tim Basilone - Koppers





STATE OF MISSISSIPPI

DAVID RONALD MUSGROVE, GOVERNOR MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

September 19, 2001

CERTIFIED MAIL 7099 3400 0014 1701 4192

Mr. Thomas Henderson Plant Manager Koppers Industries Incorporated PO Box 160 Tie Plant, Mississippi 38960

Dear Mr. Henderson:

Re: Koppers Industries Inc

Grenada County

Water Ref. No. MSP090300

Enclosed please find the environmental permit referenced above. Please note the limitations, schedules of compliance, monitoring requirements, and monitoring reporting dates found in this permit.

Permit No. MSP090300 is issued in accordance with the provisions of the Mississippi Air and Water Pollution Control Law (Sections 49-17-1, et seq., Mississippi Code of 1972). Any appeal of these permit actions must be made within the 30-day period provided for in Section 49-17-29(4)(b) Mississippi Code of 1972.

Sincerely,

Mary E. Coleman

Environmental Permits Division

Enclosure

Cc: Mr. J. Kenneth Mixon, Public Works Director, City of Grenada (w/enclosure)

Mr. Blair Simpson, Koppers Industries (w/o enclosure)

876 Water PER20000004

STATE OF MISSISSIPPI WATER POLLUTION CONTROL PERMIT

TO OPERATE A WASTE DISPOSAL SYSTEM IN ACCORDANCE WITH NATIONAL AND STATE PRETREATMENT STANDARDS

THIS CERTIFIES THAT

Koppers Industries Inc Tie Plant Road Grenada, Mississippi

has been granted permission to discharge wastewater into

Grenada POTW (MS0020397)

in accordance with effluent limitations, monitoring requirements and other conditions set forth in this permit. This permit is issued in accordance with the provisions of the Mississippi Water Pollution Control Law (Section 49-17-1 et seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder, and under authority granted pursuant to Section 402(b) of the Federal Water Pollution Control Act.

The issuance of this permit does not relieve the permittee from complying with any requirements which the Publicly Owned Treatment Works (POTW) Authority may deem necessary as a prerequisite to the use of the Authority's sewage system and associated treatment works.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued:

Expires: August 31, 2006

Permit No.: MSP090300

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS A.

During the period beginning Upon Permit Issuance, and lasting until August 31, 2006, the permittee is authorized to discharge from outfall(s) serial number(s): 001 (Total Facility Discharge)

Such discharges shall be limited and monitored by the permittee as specified below:

		DISCHARGE	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	UIREMENTS
PARAMETER	kg/day	(lbs/day)	Other Units (Specify)	s (Specify)		
	Monthly Avg.	Daily Max.	Monthly Avg.	Daily Max.	Measurement Frequency	Sample Type
Flow (MGD)	-		Report	0.035	Daily	Continuous
Biochemical Oxygen Demand (5-day)	32 (70)	63 (140)	240 mg/L	480 mg/L	Once/Week	24-Hr. Composite
Total Suspended Solids	40 (88)	79 (175)	300 mg/L	T/gm 009	Once/Week	24-Hr. Composite
Total Phenols	0.40 (0.88)	0.79 (1.75)	3 mg/L	6 mg/L	Once/Week	Grab
Pentachlorophenol	0.024 (0.053)	0.048 (0.105)	0.18 mg/L	0.36 mg/L	Once/Week	Grab
Oil and Grease	Report	13.2 (29.2)	Report mg/L	100 mg/L	Once/Week	Grab

		DISCHARGE	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	UIREMENTS
PARAMETER	kg/day	(lbs/day)	Other Units (Specify)	(Specify)		
	Yearly Avg.	Yearly Max.	Yearly Avg.	Yearly Max.	Measurement Frequency	Sample Type
Copper, Total Recoverable	Report	0.291 (0.642)	Report mg/L	2.2 mg/L	Twice/Year	24-Hr. Composite
Chromium, Total Recoverable	Report	0.529 (1.168)	Report mg/L	4.0 mg/L	Twice/Year	24-Hr. Composite
Arsenic, Total Recoverable	Report	0.060 (0.131)	Report mg/L	0.45 mg/L	Twice/Year	24-Hr. Composite
Nickel, Total Recoverable	Report	Report	Report mg/L	Report mg/L	Twice/Year	24-Hr. Composite
Zinc, Total Recoverable	Report	Report	Report mg/L	Report mg/L	Twice/Year	24-Hr. Composite

The pH shall not be less than 5.5 standard units nor greater than 9.5 standard units and shall be monitored twice per week with a grab sample of the effluent.

ri

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Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): the nearest accessible point after final treatment but prior to actual discharge into the POTW collection system or mixing with nonregulated wastewater streams.

B. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the effluent limitations specified for discharge in accordance with the following schedule:

Upon permit issuance.

2. Within 14 days after either an interim or final date of compliance specified in Part I.B.1., the permittee shall provide the Permit Board with written notice of his compliance or noncompliance with the requirements or conditions specified to be completed by that date. Failure to submit the written notice to the Permit Board shall be considered a violation of the compliance requirements of the permit, for which the Commission may be asked to take enforcement action.

Not Applicable.

C. GENERAL PRETREATMENT PROHIBITIONS

- 1. In addition to those pollutants limited in Part I.A., the following pollutants shall not be discharged into the POTW:
 - a) Pollutants which create a fire or explosion hazard in the POTW, including but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21;
 - b) Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0, unless the treatment works is specifically designed to accommodate such discharges;
 - c) Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in interference;
 - d) Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the POTW;
 - e) Heat in amounts which will inhibit biological activity in the POTW resulting in interference, but in no case heat in such quantities that the temperature at the POTW treatment plant exceeds 40oC (104oF) unless the approval Authority, upon request of the POTW, approves alternate temperature limits;
 - f) Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;

- g) Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems;
- h) Any trucked or hauled pollutants, except at discharge points designated by the POTW.

D. ORAL NOTIFICATION REQUIREMENTS

The permittee shall notify the Mississippi Environmental Quality Permit Board and the POTW orally immediately upon becoming aware of the following:

- 1. A spill which would result in a discharge to the POTW or to State waters;
- 2. Any unanticipated bypass which exceeds any effluent limitation in the permit.
- 3. Any upset which exceeds any effluent limitation in the permit.
- 4. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Permit Board in the permit to be reported within 24 hours.

Part II.

A. MANAGEMENT REQUIREMENTS AND RESPONSIBILITIES

1. No Discharge of Wastewater to Surface Water

The discharge of any wastewater from this facility to the waters of the State of Mississippi shall constitute a violation of this permit, except as provided in Part II, A.4. and A.5. of this permit, or as authorized under separate permit pursuant to Section 402 of the Federal Water Pollution Control Act.

2. Change in Wastewater Source

Any facility expansion, production increases, process modifications, changes in discharge volume or location or other changes in operations or conditions of the permit which may result in a new or increased discharge of waste, shall be reported to the Permit Board by submission of a new application for a permit pursuant to Chapter One, Section II.A. of the State of Mississippi Wastewater Permit Regulations, or if the discharge does not violate effluent limitations specified in the permit, by submitting to the Permit Board a notice of a new or increased discharge.

3. Facilities Operation

The permittee shall at all times properly operate, maintain, and when necessary, promptly replace all facilities and systems of collection, treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures. Proper replacement includes maintaining an adequate inventory of replacement equipment and parts for prompt replacement when necessary to maintain continuous collection and treatment of wastewater. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit. The Permit Board may require regular reporting of internal operational and maintenance parameters where necessary to confirm proper operation of a waste treatment system.

4. Bypassing 40 CFR 403.17

- a) Definition. "Bypass" means the intentional diversion of wastestreams from any portion of the permittee's treatment facility.
- b) Notice of Bypass.
 - (1) If the permittee knows in advance of the need for a bypass, it shall submit

- prior notice to the Permit Board, if possible at least ten days before the date of the bypass.
- (2) The permittee shall submit oral notice of an unanticipated bypass that exceeds applicable Pretreatment Standards to the Permit Board within 24 hours from the time the permittee becomes aware of the bypass. A written submission shall also be provided within 5 days of the time the permittee 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 recurrence of the bypass. The Permit Board may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- c) Prohibition of bypass. Bypass is prohibited, and the Permit Board may take enforcement action against the permittee for a bypass, 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 back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal period of equipment downtime or preventative maintenance; and
 - (3) The permittee submitted notices as required under paragraph (b) of this section.

5. Upsets 40 CFR 403.16

- a) Definition. "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 permittee. 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.
- b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with categorical pretreatment standards if the requirements of paragraph (c) of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to

judicial review.

- c) Conditions necessary for demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The facility was at the time being properly operated in a prudent and workmanlike manner and in compliance with applicable operation and maintenance procedures; and
 - (3) The permittee submitted notice of the upset as required in 40 CFR 403.16 (c)(3) (24-hour notice of noncompliance).
- d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.
- e) User responsibility in case of upset. The Industrial User shall control production or all discharges to the extent necessary to maintain compliance with categorical Pretreatment Standards upon reduction, loss, or failure of its treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where among other things, the primary source of power of the treatment facility is reduced, lost or fails.

6. Removed Substances

Solids, sludges, filter backwash, or other residuals removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent such materials from entering State waters and in a manner consistent with the Mississippi Solid Waste Disposal Act, the Federal Resource Conservation and Recovery Act, and the Mississippi Water Pollution Control Act.

7. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of the permit which has a reasonable likelihood of adversely affecting human health or the environment.

8. Power Failures

If electric power is required, in order to maintain compliance with the conditions and prohibitions of this permit, the permittee shall either:

a) Provide an alternative power source to operate the wastewater control facilities;

or, if such alternative power source is not in existence, and no date for its implementation appears in this permit,

b) Halt, reduce, or otherwise control production and/or all wastewater flows upon reduction, loss, or failure of the primary source of power to the wastewater control facilities.

9. Compliance with Permit Conditions

All discharges authorized by the permit shall be consistent with the terms and conditions of the permit and the permittee shall make all reasonable efforts to meet any interim or final dates for compliance specified therein.

10. Facility Expansion and/or Modification

Any facility expansion, production increases, process modifications, changes in discharge volume or location or other changes in operations or conditions of the permittee which may result in a new or increased discharge of waste, shall be reported to the Permit Board by submission of a new application for a permit, or if the discharge does not violate effluent limitations specified in the permit, by submitting to the Permit Board a notice of a new or increased discharge.

B. MONITORING, REPORTING, AND RECORDKEEPING

1. Routine Reporting

Such test results, reports, or other data as the Mississippi Environmental Quality Permit Board may determine to be necessary shall be submitted on a regular basis to the following address:

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY OFFICE OF POLLUTION CONTROL P. O. Box 10385 Jackson, Mississippi 39289-0385

2. Duty to Provide Information

The permittee shall furnish to the Permit Board, within a reasonable time, any information which the Permit Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The permittee shall also furnish to the Permit Board upon request, copies of records required to be kept by the permit.

3. Test Procedures

Testing procedures for the analysis of pollutants for all permits include those set forth

in 40 CFR 136 which is incorporated herein and adopted by reference or alternative procedures approved and/or promulgated by EPA.

4. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored wastewater.

5. Recording of Results

A permittee required to monitor a waste discharge pursuant to Chapter One, Section IV.A.28. of the State of Mississippi Wastewater Permit Regulations shall maintain records of all information obtained from such monitoring, including:

- 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, procedures or methods used; and
- e) The results of all required analyses.

6. Records Retention

- a) All records and results of monitoring activities, including calibration and maintenance records, shall be retained by the permittee a minimum of three (3) years unless otherwise required or extended by the Permit Board, copies of which shall be furnished to the Department upon request.
- b) The permittee shall furnish to the Permit Board upon request, copies of records required to be kept by this permit.

7. Falsifying Reports

Any permittee who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required by the Permit Board to be maintained as a condition in a permit, or who alters or falsifies the results obtained by such devices or methods and/or any written report required by or in response to a permit condition, shall be deemed to have violated a permit condition and shall be subject to the penalties provided for a violation of a permit condition pursuant to Section 49-17-43 of the Code.

8. Noncompliance Reporting

a) The permittee shall report any noncompliance which may endanger health or the

environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and/or prevent recurrence of the noncompliance.

- b) The following shall be included as information which must be reported within 24 hours under this paragraph.
 - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - Any upset which exceeds any effluent limitation in the permit.
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Permit Board in the permit to be reported within 24 hours.
- c) The Executive Director may waive the written report on a case-by-case basis for reports under paragraph a. of this section if the oral report has been received within 24 hours.

9. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Part I.D or Part II.B.6, at the time monitoring reports are submitted or within 30 days from the end of the month in which the noncompliance occurs. The reports shall contain the information listed in Part II.B.6.

10. Right of Entry

The permittee shall allow the Mississippi Environmental Quality Permit Board and/or their authorized representatives, upon the presentation of credentials:

- a) To enter upon the permittee's premises where a wastewater source is located or in which 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 wastewater generated at this facility.

c) In the event of investigation during an emergency response action, a reasonable time shall be any time of the day or night.

11. Transfer of Ownership or Control

This permit is not transferable to any person except after proper notice and approval by the Permit Board. In the event of any change in control or ownership of facilities, the permittee shall notify the Mississippi Environmental Quality Permit Board at least thirty (30) days in advance of the proposed transfer date. The notice should include a written agreement between the existing and new permittees containing a specific date for the transfer of permit responsibility, coverage, and liability.

12. Signatory Requirements 40 CFR 403.12(1)

All applications, reports, or information submitted to the Permit Board shall be signed and certified.

- a) All permit applications shall be signed as follows:
 - (1) For a corporation: by a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means: (1) a president, secretary, treasurer or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making function for the corporation, or (2) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding 25 million (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - (3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.
- b) All reports required by the permit and other information requested by the Permit Board shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - (1) The authorization is made in writing by a person described above;
 - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a

well field, superintendent, position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

- (3) The written authorization is submitted to the Permit Board.
- c) Changes to authorization. If an authorization under paragraph (b) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph (b) of this section must be submitted to the Permit Board prior to or together with any reports, information, or applications.
- d) Certification. Any person signing a document under paragraphs (a) or (b) of this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

13. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Permit Board, it shall promptly submit such facts or information.

14. Availability of Records

Except for data determined to be confidential under the Mississippi Air and Water Pollution Control Law, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Mississippi Office of Pollution Control.

15. Permit Modification

a) The permittee shall furnish to the Permit Board within a reasonable time any relevant information which the Permit Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit.

- b) The permit may be modified, revoked and reissued, or terminated for cause.
- c) The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

16. 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 any infringement of Federal, State, or local laws or regulations

17. 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 to under Section 311 of the Federal Water Pollution Control Act or the applicable provisions under Mississippi Law pertaining to the transportation, storage, treatment, or spillage of oil or hazardous substances.

18. Hazardous Waste Release

The permittee shall notify the Mississippi Department of Environmental Quality, the EPA Regional Waste Management Division Director, State hazardous waste authorities, and the POTW in writing of any discharge into the POTW of a substance, which, if otherwise disposed of, would be a hazardous waste under 40 CFR part 261. Such notification must include the name of the hazardous waste as set forth in 40 CFR part 261, the EPA hazardous waste number, and the type of discharge (continuous, batch, or other). If the Industrial User discharges more than 100 kilograms of such waste per calendar month to the POTW, the notification shall also contain the following information to the extent such information is known and readily available to the Industrial User: identification of the hazardous constituents contained in the wastes, as estimation of the mass and concentration of such constituents in the wastestream discharged during that calendar month, and an estimation of the mass of constituents in the wastestream expected to be discharged during the following twelve months. All notifications must take place within 180 days of the effective date of this rule. Industrial users who commence discharging after the effective date of this rule shall provide the notification no later than 180 days after the discharge of the listed or characteristic hazardous waste. Any notification under this paragraph need be submitted only once. However, notifications of changed discharges must be submitted under 40 CFR 403.12(j). The notification requirement in this section does not apply to pollutants already reported under the self-monitoring requirements of 40 CFR 403.12(b), (d), and (e).

b) Dischargers are exempt from the requirements of paragraph a. of this section during a calendar month in which they discharge no more than fifteen kilograms of hazardous wastes, unless the wastes are acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(d). Discharge of more than fifteen kilograms of non-acute hazardous wastes in a calendar month, or of any quantity of acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e), requires a one-time notification.

Subsequent months during which the Industrial User discharges more than such quantities of any hazardous waste do not require additional notification.

- c) In the case of any new regulations under section 3001 of RCRA identifying additional characteristics of hazardous waste or listing any additional substance as a hazardous waste, the Industrial User must notify the POTW, the EPA Regional Waste Management Division Director, and State hazardous waste authorities of the discharge of such substance within 90 days of the effective date of such regulations.
- d) In the case of any notification made under paragraph a. of this section, the Industrial User shall certify that it has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree it has determined to be economically practical.

19. Severability

The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby.

20. Closure Requirements

Should the permittee decide to permanently close and abandon the premises upon which it operates, it shall provide a Closure Plan to the Permit Board no later than 90 days prior to doing so. This Closure Plan shall address how and when all manufactured products, by-products, raw materials, stored chemicals, and solid and liquid waste and residues will be removed from the premises or permanently disposed of on site such that no potential environmental hazard to the waters of the State will be presented. Closure plan(s) submitted and approved to Mississippi Department of Environmental Quality for compliance with other environmental regulations will satisfy the closure requirements for those items specifically addressed in the closure plan(s) as long as the closure does not present a potential for environmental hazard to waters of the State.

21. Submittal of Discharge Monitoring Results

Monitoring reports. Monitoring results shall be reported at the intervals specified in the permit.

- a) Monitoring results must be reported on a Discharge Monitoring Report (DMR) and/or forms provided or specified by the Permit Board for reporting results of monitoring, of sludge use or disposal practices.
- b) If the permittee monitors any pollutant as prescribed in the permit more frequently than required by the permit using test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Permit Board.
- c) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Permit Board in the permit.
- d) If the results for a given sample analysis are such that any parameter (other than fecal coliform) is not detected at or above the minimum level for the test method used, a value of zero will be used for that sample in calculating an arithmetic mean value for the parameter. If the resulting calculated arithmetic mean value for that reporting period is zero, the permittee shall report "NODI = B" on the DMR. For fecal coliform, a value of 1.0 shall be used in calculating the geometric mean. If the resulting fecal coliform mean value is 1.0, the permittee shall report "NODI = B" on the DMR. For each quantitative sample value that is not detectable, the test method used and the minimum level for that method for that parameter shall be attached to and submitted with the DMR. The permittee shall then be considered in compliance with the appropriate effluent limitation and/or reporting requirement.
- e) Monitoring results obtained during the month shall be summarized and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), postmarked no later than the 28th day of the following month. The first report is due on October 28, 2001. Copies of this, and any other reports required herein, shall be signed in accordance with Chapter One, Sections II.C and II.E of the State of Mississippi Wastewater Permit Regulations, and shall be submitted to the Mississippi Environmental Quality Permit Board at the following address:

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY OFFICE OF POLLUTION CONTROL P. O. Box 10385
Jackson, Mississippi 39289-0385

22. Expiration of Permit

At least 180 days prior to the expiration date of this permit pursuant to the State law and regulation, the permittee who wishes to continue to operate under this permit shall submit an application to the Permit Board for reissuance. The Permit Board may grant permission to submit an application later than this, but no later than the expiration date of the permit.

23. Civil and Criminal Liability

- a) Any person who violates a term, condition or schedule of compliance contained within this permit or the Mississippi Water Pollution Control Law is subject to the actions defined by law.
- b) Except as provided in permit conditions on "Bypassing" and "Upsets" (Part II, A-4 and 5), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.
- c) It shall not be the defense of the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

24. Protection of Confidential Information

- a) Pursuant to Miss. Code Ann. '49-17-39 and 40 CFR 123.41, the Permit Board shall make available to the public all information contained on any form and all public comments on such information. Effluent data and information concerning air or water quality shall also be made available to the public. Information that is determined by the Commission to be trade secrets shall not be disclosed to the public without prior consent of the source of such information. When a claim of confidentiality is made by a person in accordance with the provisions of Miss. Code Ann. '49-17-39, a recommendation on the questions of confidentiality shall be made by the Commission and forwarded to the Regional Administrator (or his/her designee) of EPA for his concurrence in such determination of confidentiality.
- b) A copy of a State, UIC, or NPDES permit application, public notice, fact sheet, draft permit and other forms relating thereto, including written public comment and other reports, files and information relating to the application not classified as confidential information by the Commission pursuant to Part II.B.21.a., shall be available for public inspection and copying during normal business hours at the office of the Department in Jackson, Mississippi.
- c) Upon determination by the Commission that information submitted by a permit applicant is entitled to protection against disclosure as trade secrets, the information shall be so labeled and otherwise handled as confidential. Copies

of the information and a notice of the Commission's action shall be forwarded to the Regional Administrator (or his/her designee). In making its determination of entitlement to protection as a trade secret, the Commission shall follow the procedure set forth in Miss. Code Ann. '49-17-39. In the event the Commission denies the claim of confidentiality, the applicant shall have, upon notification thereof, the right to appeal the Commission's determination in the same manner provided for other orders of the Commission. No disclosure, except to EPA, shall be allowed until any appeal from the determination of the Commission is completed.

25. Spill Prevention and Best Management Plans

Any permittee which has above ground bulk storage capacity, of more than 1320 gallons or any single container with a capacity greater than 660 gallons, of materials and/or liquids (including but not limited to, all raw, finished and/or waste material) with chronic or acute potential for pollution impact on waters of the State shall comply with the following conditions to prevent the potential release of these materials and storm water contaminated with these materials:

- a) Bulk storage not subject to Hazardous Waste Management Regulations or 40 CFR 112 (Oil Pollution Prevention) regulations shall be provided with secondary containment as found in 40 CFR 112 or equivalent protective measures;
- b) A Spill Prevention Control and Countermeasures (SPCC) Plan or Best Management Practices (BMP) Plan shall be maintained for any bulk storage subject to these requirements;
- c) Tank systems, not necessarily classified as bulk storage, are also subject to the conditions above.

26. Definitions

- a) "Toxic pollutants" include, but are not limited to: (a) any toxic substance listed in Section 307(a)(1) of the Clean Water Act (CWA), any chemical listed in Section 313(c) of the Superfund Amendments and Reauthorization Act of 1986; and (b) any substance (that is not also a conventional or nonconventional pollutant) for which EPA or the State has published an acute or chronic toxicity criterion.
- b) "Hazardous substances" are defined in 40 CFR 116.4.
- c) "Monthly average" means the average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during the month. The monthly average for fecal coliform bacteria is the geometric mean of "daily discharges" measured during the calendar month. In computing the

geometric mean for fecal coliform bacteria, the value one (1) shall be substituted for sample results of zero.

- d) "Weekly average" means the average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week. The weekly average for fecal coliform bacteria is the geometric mean of all "daily discharges" measured in a calendar week. In computing the geometric mean for fecal coliform bacteria, one (1) shall be substituted for sample results of zero. For self-monitoring purposes, the value to be reported is the single highest weekly average computed during a calendar month.
- e) "Daily maximum" means the highest "daily discharge" over a calendar month.
- 27. Other Specific Pretreatment Requirements
 - a) The permittee shall report the production rate for the process which generates the wastewater discharge as required by 40 CFR 403.12(e)(3).





PERMIT BOARD REPORT

SEP 2 5 2001

Permit Action Form Koppers Industries Inc 543 Tie Plant Road Grenada County Tie Plant, MS 38960

Branch Manager: Maya Rao

SIC: 2491

Recommendations

	o. – Activity Type 04 - RA-Water-PT	Permit No. MSP090300	96	DEQ Contact Mary E. Coleman
Action:	☐ Issue ☑ Reissue ☐ Modification ☐ Name Change ☐ Transfer ☐ Deny ☐ Revoke		Ву:	☑ Division Chief ☐ Permit Board

Basis:

The permit conditions for this straight reissuance (no flow increases, no process modifications) are based on applicable federal regulations, Timber Products

Processing Point Source Category; Subpart G - Wood Preserving Steam

Subcategory - 40 CFR Part 429.85 Pretreatment standards for existing sources (PSES). The regulated discharge consists of process wastewater discharge from the wood preserving operation including boiler blowdown and contaminated stormwater collected on process areas. For Nickel and Zinc, the proposed limitations are based on water quality. The application data submitted only represented one sampling event. Nickel (0.04 mg/l) was reported below the established water quality criteria (acute: 0.787 mg/l, chronic: 0.087 mg/l) while Zinc (1.36 mg/l) was reported above the established water quality criteria (acute: 0.0636 mg/l, chronic: 0.0581 mg/l). Based on these circumstances, both nickel and zinc will be added to the permit; both will be on a "report only" basis.

Coordination

Comments:

The receiving stream for this project is the City of Grenada POTW; therefore, no 303d issues exist. No other permits are required in association with this renewal. There are no applicable coordination issues.

Relationships

People

Name	Address	City	State	Zip	Relationship
Thomas	PO Box 160	Tie Plant	MS	38960	Is Water
Henderson					Permit Contact
- Inter					For

Name	Address	City	State	Zip	Relationship
Thomas	PO Box 160	Tie Plant	MS	38960	Is Contact For
Henderson					

Administrative Tasks (Backlogged Application)

Task	Scheduled Date	Completed Date
Letter Acknowledging Receipt of Application Issued	7/19/00	7/19/00
Application Received and Processed	7/17/00	7/17/00
Draft Permit and Rationale Prepared	8/27/01	8/27/01
Issue Letter of Deficiency	1/10/01	1/10/01
Revised Application Received and Processed	1/12/01	5/24/01
Letter Acknowledging Receipt of Revised Application Issued	1/13/01	5/28/01
Draft sent to applicant and city	8/23/01	8/23/01

Existing Permits

Permit Number	Description	
Air-AIRS AFS	04300012	
Air-Title V Operating	096000012	
Hazardous Waste-EPA ID	MSD007027543	
Hazardous Waste-TSD	HW8854301	
Water-SOP	MSU081080	

	Facility Data Scre	BUILT IFAC	
PERMIT #: MSPOG	TRANSACTION CODE (N=NEW R=REISSUANCE		
FACILITY NAME:	oppers industri	IES INCITION	
COGNIZANT OFFICIAL:	THOMAS HENDERSO	DA, PLANT MANAGER	
PHONE: 662-22	6-4584 CITY: TIE	PLANT CODE: 04	13
SIC CODE: 2491	TYPE OF APPLICATI (See Page 11)	ION: ZP FACILITY OWNERSHIP: PRI	
TYPE OF PERMIT: S	FEDERAL GRANT 92-500 ONLY "\$		
FACILITY INACTIVE CODE	FACILITY INACTIVE DATE	- (Use <u>ONLY</u> if you are inactivati entire facility. Otherwise use	ing an
SUB-REGION: NO	ENGINEER: MEC AVER	RAGE DESIGN FLOW: 0.035 MED	
	COMPLIANCE: JHB		
RIVER FOOI	Facility Data Scre 0338 - Upper Tombigbee Ri 0340 - Lower Tombigbee Ri 0342 - Pascagoula River 0343 - Pearl River 0408 - Tennesse River	iver 1006 - Mississippi River	
WATERS GLENAL	DA POTW (MS0026	0/3/9/7/01 1 1 1 1 1	
Facility Type: RDF1	Treatment Type: RDF4	HC = Hydrograph Controlled ML = Multiple Lagoon NC = Non-Contact Cooling OS = Off Site Disposal OF = Overland Flow OD = Oxidation Ditch PC = Physical Chemistry PH = PH Adjustment PS = Primary Sedimentation RR = Recycle and Reuse RO = Reverse Osmosis RBC = Rotating Biological Contractor SF .= Sand Filter SS = Secondary Sedimentation SI = Spray Irrigation SW = Statewide TF = Trickling Filter	•
A = Acute C = Chronic		FILE COPY	

PERMIT # : MSP090300

Fermit Issuance:

TRANSACTION CODE : (N=NEW C=CHANGE)

PERMIT TRACKING EVENT CODE : P 4 0 9 9

SCHEDULED DATE : 09-118-01

ACTUAL DATE : 09-18-01

Permit Expiration:

TRANSACTION CODE : (N=NEW C=CHANGE)

PERMIT TRACKING EVENT CODE : P 5 0 9 9

SCHEDULED DATE : 08-31-06

ACTUAL DATE: 08-31-06

Permit Facility Geographic Data Screen (FAGD)

PERMIT #: MSP090300 TRANSACTION CODE:	, c
LATITUDE. (FLAT): +3344123 HDDMMSST	
LONGITUDE (FLON): -08947025 HDDDMMSST	
LAT/LONG METHOD (FLLM) : A	
A = Map Interpolation B = Navigation-Quality GPS C = Remote Sensing D = Zip Code Centroid U = Unknown 1 = Address Mapping 2 = Aerial Photo w/Ground Control 3 = Cadastral Survey 5 = Township-Section-Ra 6 = UTM Coordinates Con 7 = Raw Photo Extration 8 = GPS Survey 9 = Loran-C Navigationa	nge sys Conv version
LAT/LONG DATUM (FLLT): 1 U = Unknown 1 = NAD27 2 = NAD83	
LAT/LONG SCALE (FLLS): 3 N = Not Applicable 3 = 24,000 7 = 63,350 U = Unknown 4 = 25,000 8 = 63,360 1 = 15,840 5 = 62,500 9 = 250,000 2 = 20,000 6 = 63,000	ट स
LAT/LONG DESCRIPTION (FLLD) : 0 1 0 9 9 01099 = Centroid of Processing Area 02099 = Front Door of Facility	

USGS HYDROLOGIC BASIN CODE (FHBC)

Ofall General Data Screen #1 (O)

PERMIT #: MS P0903	TRANSACTION CODE: (N=New C=Change)	
DISCHARGE NUMBER : 001	REPORT DESIGNATOR :	
INITIAL REPORT DATE: (Date monitoring is to begin)	9-01-01 REPORT UNITS: M	
NUMBER OF MONTHS IN OO	TOTAL NUMBER OF MONTHS DUE : 000	
INITIAL STATE SUBMISSION DA	TE: 10-28-01 STATE SUBMISSION UNIT: M	
NUMBER OF UNITS IN STATE SUI	BMISSION PERIOD (See instruction sheet, #9).	
PIPE DESCRIPTION : TOTA	IL FACILITY DISCHAREE	
SEASONAL DMR PRINTING INDICA	ATORS: YYYYYYYYYY	
NITIAL LIMIT DATES : STA	ART	
NTERIM LIMIT DATES : STA	ART	
INAL LIMIT DATES : STA	ART 09-18-01 END 08-31-06	
IPE INACTIVE CODE :	PIPE INACTIVE DATE: AGENCY REVIEWER (ENGINEER):	1
Jse if only the pipe itself is not active. To inactivate an entire facility, use FAC		
	Outfall General Data Screen #2 (OFLT)	
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structions to appear		
structions to appear		
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structions to appear the bottom of the DMR hen it is preprinted		
structions to appear the bottom of the DMR then it is preprinted		

8 Form: OFLG Revised 02-87 All previous versions forms about

PERMIT # : MS P 09 0.	TRANSACTION CODE : (N=New C=Change)	
DISCHARGE NUMBER : OO	REPORT DESIGNATOR : Y	
INITIAL REPORT DATE: (Date monitoring is to begin)	q-01-01 REPORT UNITS: M	
NUMBER OF MONTHS IN OI	TOTAL NUMBER OF MONTHS DUE : 005	
INITIAL STATE SUBMISSION DA	ATE: 01-23-02 STATE SUBMISSION UNIT: M	
NUMBER OF UNITS IN STATE SU	UBMISSION PERIOD [2] (See instruction sheet, #9).	
PIPE DESCRIPTION : TOTA	IL FACILITY DISCHARGE	
SEASONAL DMR PRINTING INDIC	CATORS : YYYYYYYYY	
INITIAL LIMIT DATES : ST	PART	
INTERIM LIMIT DATES : ST	ART END	
FINAL LIMIT DATES : ST	ART 09-18-01 END 08-31-06	
PIPE INACTIVE CODE :	PIPE INACTIVE DATE : AGENCY REVIEWER	_
(Use if only the pipe itself is not active To inactivate an entire facility, use FA	(ENGINEER): M	-
	Outfall General Data Screen #2 (OFLT)	
Use these nine lines if		
nstructions to appear		
on the bottom of the DMR		
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on the bottom of the DMR		
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on the bottom of the DMR		



Koppers Industries, Inc. Grenada, Mississippi Pretreatment Permit No. MSP090300 Rationale (Reissuance) August 24, 2001

I. Facility Information

A. Nature of Business: Wood preservation

B. Regulated Discharge: Process wastewater discharge from the wood preserving operation including

boiler blowdown and contaminated stormwater collected on process areas.

C. Applicable Federal Regulations: Timber Products Processing Point Source Category; Subpart G - Wood Preserving Steam Subcategory - 40 CFR Part 429.85 Pretreatment standards for existing sources (PSES)

II. POTW Information

A. Name: City of Grenada Aerated Multi-Cell Lagoon (MS0020397)

B. Average Design Flowrate: 3.4 MGD

C. POTW Receiving Stream: Yalobusha River

D. POTW Receiving Stream 7Q10 Flowrate: 35.55 MGD (Q_{7/10})

III. Flowrate Data and Loading Conditions:

A. POTW Average Flowrate (QPOTW) from discharge monitoring report (DMR) data.

Month	Flowrate, MGD
Jan 00	1.781
Feb 00	1.825
Mar 00	2.167
Apr 00	2.800
May 00	1.600
Jun 00	1.724
Jul 00	1.300
Aug 00	1.400
Sept 00	1.500
Oct 00	1.356
Nov 00	1.500
Dec 00	1.750
Sum	20.703
	/12
$Q_{POTW}=$	1.725 MGD

B. Indirect Dischargers Process Flowrate Data (Metal Contributing Industries)

Indirect Discharger	Q _{process} or (Q ₁), MGD
Koppers	0.035
Binswanger	0.121
Heatcraft ADP	0.093
Heatcraft North	0.030
Heatcraft South (OEM)	0.030
Pennaco	0.160
Valley Racks	0.0025
Total =	0.472 MGD (Q _T)

C. X_t - Maximum 30 Day Average Value Utilizing DMR data - Year 2000 Data.

Parameter	•	Outfall 001	Heatcraft ADP Outfall 002	Heatcraft North	Heatcraft South (OEM)	Pennaco	Valley Racks	Koppers	Xtt Total
<u></u>	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)
As								0	0.0
Cr	0			0.005	0.045	0.28	0.0005	ŏ	0.3305
Cu	0.85	1.52	0.43	0.478	1.68		0.001	0.0023	4.9613
Ni	0.019			0.007	0.015		0.0005	0.0020	0.0415
Zn	0.04	0.199	0.005	0.322	2.44		0.001		3.007
Penta								0.4263	0.4263
Phenol						0.02		0.0286	0.4203

D. X_{ta} – Current Maximum Permitted Loadings.

Parameter	•	Heatcraft ADP Outfall 001	Heatcraft ADP Outfall 002	Heatcraft North	Heatcraft South (OEM)	Pennaco	Valley Racks	Koppers	Xtat Total
	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)
As								0.131	0.131
Cr	2.079			0.693	0.636	1.6	0.058	1.168	6.234
Cu	2.537	1.4	0.01	0.846	4.6		0.06	0.642	10.095
Ni	2.987			0.996	2.84		0.083		6.906
Zn	1.959	3.73	0.028	0.653	6.32		0.054		12.744
Penta								0.105	0.105
Phenol						0.5		1.75	2.25

IV. Background / Domestic Loading Calculations:

$$BG_L$$
, #/day = 8.34 ($BG_{C(1)}$, mg/L) (Q_{POTW} –Sum $Q_{Industrial(2)}$, MGD)

$$BG_L(As) = 8.34 (0.0014119) (1.725 - 0.420) = 0.015 \#/day$$

$$BG_L(Cu) = 8.34 (0.1450994) (1.725 - 0.420) = 1.58 \#/day$$

$$BG_L(Cr) = 8.34 (0.0653852) (1.725 - 0.420) = 0.712 \#/day$$

$$BG_L(Ni) = 8.34 (0.021) (1.725 - 0.420) = 0.229 \#/day$$

$$BG_L(Zn) = 8.34 (0.175) (1.725 - 0.420) = 1.90 \#/day$$

$$BG_L(Penta) = 8.34 (0.0) (1.725 - 0.420) = 0.0 \#/day$$

$$BG_L(Phenol) = 8.34(0.0)(1.725 - 0.420) = 0.0 \#/day$$

- (1) BG_C = Background concentration in domestic sewage. See Attachment A for tabulation of values from the City of Grenada Toxicity Study. Values for Nickel and Zinc were taken from Table 3-13 (Typical Domestic Wastewater Levels). Background values for both pentachlorophenol and phenol.
- (2) Sum $Q_W = Q_{W1} + Q_{W2} + Q_{W3} + ... + Q_{Wn}$ where Q_W is the maximum 30 day average from DMR flowrate data for the existing indirect discharger from the last 12 months of monthly DMR data.

V. Water Quality Analysis:

A. $IWC = Q_{POTW} / (Q_{POTW} + Q_{7/10})$

$$IWC = 1.725/(1.725 + 35.55) = 0.04627$$

IWC = 4.63%; therefore, develop an acute and chronic water quality screens.

B. Acute Allowable Water Quality Criteria (AWQC) Headworks Loading Calculations:

AWQC,
$$\#/day = 8.34 (C_{CRITICAL(1)}, mg/L) (Q_{POTW} + Q_{7/10}, MGD) / (1-R_{POTW(2)})$$

$$AWQC (As) = 8.34 (0.360) (1.725 + 35.55) / (1-0.95) = 203.48 \#/day$$

AWQC (Cu) =
$$8.34 (0.00845) (1.725 + 35.55) / (1-0.95) = 55.02 \#/day$$

AWQC (Cr) =
$$8.34 (0.311) (1.725 + 35.55) / (1-0.91) = 1074.24 \#/day$$

AWQC (Ni) =
$$8.34 (0.787) (1.725 + 35.55) / (1-0.56) = 556.04 \#/day$$

$$AWQC(Zn) = 8.34(0.0636)(1.725 + 35.55)/(1-0.64) = 54.92 \#/day$$

AWQC (Penta) =
$$8.34 (0.00332) (1.725 + 35.55) / (1-0) = 1.03 #/day$$

AWQC (Phenol) =
$$8.34 (0.300) (1.725 + 35.55) / (1-0) = 93.26 \#/day$$

C. Chronic Allowable Water Quality Criteria (AWQC) Headworks Loading Calculations:

AWQC, #/day = 8.34 (
$$C_{CRITICAL(1)}$$
, mg/L) ($Q_{POTW} + Q_{7/10}$, MGD) / (1- $R_{POTW(2)}$)

$$AWQC (As) = 8.34 (0.190) (1.725 + 35.55) / (1-0.45) = 107.39 \#/day$$

$$AWQC (Cu) = 8.34 (0.00628) (1.725 + 35.55) / (1-0.95) = 39.05 \#/day$$

$$AWQC (Cr) = 8.34 (0.101) (1.725 + 35.55) / (1-0.91) = 348.87 \#/day$$

$$AWQC (Ni) = 8.34 (0.087) (1.725 + 35.55) / (1-0.56) = 61.47 \#/day$$

AWQC (Zn) =
$$8.34 (0.0581) (1.725 + 35.55) / (1-0.64) = 6.50 \#/day$$

AWQC (Penta) =
$$8.34 (0.0021) (1.725 + 35.55) / (1-0) = 0.653 \#/day$$

AWQC (Phenol) =
$$8.34 (0.102) (1.725 + 35.55) / (1-0) = 31.71 \#/day$$

- (1) State of Mississippi Water Quality Criteria For Intrastate, Interstate and Coastal Waters...Adopted November 16, 1995 (Appendix A). Freshwater acute and chronic values.
- (2) Removal efficiencies developed by OPC from the City of Grenada toxicity data. Attachment A. For Arsenic, no removal efficiency data was available for aerated lagoons. Table 3.10 (Priority Pollutant Removal Efficiencies Through Activated Sludge Treatment) was used. For Nickel, an OPC Study document (Observed Removal Efficiency v Literature Removal Efficiency) was used for a removal efficiency value.

VI. POTW Inhibition Analysis:

A. Allowable Loading at POTW:

$$HWI_L$$
, #/day = 8.34 (Q_{POTW}, MGD) (C_{INHIBITION(1)}, mg/L)

$$HWI_L$$
, (As) = 8.34 (1.725) (0.1) = 1.44 #/day

$$HWI_L$$
, (Cu) = 8.34 (1.725) (1.0) = 14.39 #/day

$$HWI_L$$
, (Cr) = 8.34 (1.725) (1.0) = 14.39 #/day

$$HWI_L$$
, (Ni) = 8.34 (1.725) (1.0) = 14.39 #/day

$$HWI_L$$
, $(Zn) = 8.34 (1.725) (1.0) = 14.39 #/day$

$$HWI_L$$
, (Penta) = 8.34 (1.725) (0.95) = 13.67 #/day

$$HWI_L$$
, (Phenol) = 8.34 (1.725) (50) = 719.33 #/day

(1) Inhibition concentrations from <u>EPA Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program</u> – Table 3-2. Activated Sludge Inhibition Threshold Levels. See Attachment A for table.

VII. Limiting Case Summary:

Parameter	HWIL	Acute	Chronic	LC	Xtt	Xtat	BGL	BGL < LC	Xtt < LC	Xtat < LC
		AWQC	AWQC	If HWI < AWQC				(Pass/Fail)	(Pass/Fail)	(Pass/Fail)
				LC = HWI				((* 455/1 411)	(r abort all)
				IF AWQC < HWI						
				LC = AWQC						
	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)
As	1.44	203.48	107.39	1.44	0	0.131	0.015	Pass	Pass	Pass
Cr	14.39	1074.2	348.87	14.39	0.3305	6.234	1.58	Pass	Pass	Pass
Cu	14.39	55.02	39.05	14.39	4.959	10.095	0.712	Pass	Pass	Pass
Ni	14.39	556.04	61.47	14.39	0.0415	6.906	0.229	Pass	Pass	Pass
Zn	14.39	54.92	6.5	6.5	3.007	12.744	1.9	Pass	Pass	Pass
Penta	13.67	1.03	0.653	0.653	0.4263	0.105	0	Pass	Pass	Pass
Phenol	719.33	93.26	31.71	31.71	0.0486	2.25	0	Pass	Pass	Pass

VIII. Uniform Concentration Method Based upon Total Industrial Flow for the Development of Allowable Acute and Chronic Concentrations:

The remaining industrial waste load allocation will be used in calculating allowable acute concentrations using the "Concentration Limit Method Based on Industrial Contributory Flow" method as described in the EPA Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program.

EQUATIONS:

$$P_{AI}$$
, #/day = (L_C , #/day - BG_L , #/day) (Q_I , MGD / Q_T , MGD)

C_{ALLOW} , mg/L = P_{Al} , #/day / (8.34 * Q_{l} , MGD)

Where,

P_{AI} = Permit Allocation for Indirect Discharger

C_{ALLOW} = Allowable Concentration for Indirect Discharger

Q₁ = Applicant's Process Discharge

Q_T = Total Indirect Discharger Flow for Metals

 L_C = Limiting Case Loading

 BG_L = Background/Domestic Loading

Arsenic

Acute: $P_{AI} = (1.44 - 0.015) * (0.035 / 0.035) = 1.425 \#/day$

 $C_{ALLOW} = 1.425 / (8.34 * 0.035) = 4.88 \text{ mg/L}$

Chronic: $P_{AI} = (1.44 - 0.015) * (0.035 / 0.035) = 1.425 \#/day$

 $C_{ALLOW} = 1.425 / (8.34 * 0.035) = 4.88 \text{ mg/L}$

Chromium

Acute: $P_{AI} = (14.39 - 1.58) * (0.035 / 0.379) = 1.183 #/day$

 $C_{ALLOW} = 1.183 / (8.34 * 0.035) = 4.05 \text{ mg/L}$

Chronic: $P_{AI} = (14.39 - 1.58) * (0.035 / 0.379) = 1.183 #/day$

 $C_{ALLOW} = 1.183 / (8.34 * 0.035) = 4.05 \text{ mg/L}$

Copper

Acute: $P_{Al} = (14.39 - 0.712) * (0.035 / 0.312) = 1.534 #/day$

 $C_{ALLOW} = 1.534 / (8.34 * 0.035) = 5.26 \text{ mg/L}$

Chronic: $P_{AI} = (14.39 - 0.712) * (0.035 / 0.312) = 1.534 #/day$

 $C_{ALLOW} = 1.534 / (8.34 * 0.035) = 5.26 \text{ mg/L}$

<u>Nickel</u>

Acute: $P_{Al} = (14.39 - 0.229) * (0.035 / 0.184) = 2.694 \#/day$

 $C_{ALLOW} = 2.694 / (8.34 * 0.035) = 9.23 \text{ mg/L}$

Chronic: $P_{AI} = (14.39 - 0.229) * (0.035 / 0.184) = 2.694 \#/day$

 $C_{ALLOW} = 2.694 / (8.34 * 0.035) = 9.23 \text{ mg/L}$

Zinc

Acute: $P_{Al} = (6.5 - 1.9) * (0.035 / 0.277) = 0.581 #/day$

$$C_{ALLOW} = 0.581 / (8.34 * 0.035) = 1.99 \text{ mg/L}$$

Chronic:

$$P_{AI} = (6.5 - 1.9) * (0.035 / 0.277) = 0.581 #/day$$

 $C_{ALLOW} = 0.581 / (8.34 * 0.035) = 1.99 mg/L$

Pentachlorophenol

Acute:

 $P_{AI} = (1.03 - 0.0) * (0.035 / 0.035) = 1.03 \#/day$ $C_{ALLOW} = 1.03 / (8.34 * 0.035) = 3.53 mg/L$

Chronic:

 $P_{AI} = (0.653 - 0) * (0.035 / 0.035) = 0.653 \#/day$ $C_{ALLOW} = 0.653 / (8.34 * 0.035) = 2.24 mg/L$

Phenol

Acute:

 $P_{AI} = (93.26 - 0.0) * (0.035 / 0.035) = 93.26 \#/day$ $C_{ALLOW} = 93.26 / (8.34 * 0.035) = 319.5 mg/L$

Chronic:

 $P_{AI} = (31.71 - 0.0) * (0.035 / 0.035) = 31.71 \#/day$ $C_{ALLOW} = 31.71 / (8.34 * 0.035) = 108.6 mg/L$

IX. SUMMARY OF ALLOWABLE LIMITATIONS AND DECISION PROCESS:

A. Allowable Limitations Table:

Parameter	Allowable	Allowable	Categorical	Categorical	Proposed	Proposed
	Chronic	Acute	Average	Maximum	Average	Maximum
	Concentration	Concentration	Limitation	Limitation	Permit	Permit
	Cchronic	Cacute		Ccat/max	Limitation	Limitation
					Pavg	Pmax
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Biochemical Oxygen Demand 1/					240	480
Total Suspended Soiids 1/					300	600
Oil and Grease 2/				100	Report	100
Arsenic 3/	4.88	4.88		4	Report	0.45
Chromium 4/	4.05	4.05		4	Report	4
Copper 4/	5.26	5.26		5	Report	2.2
Nickel <u>5</u> /	9.23	9.23			Report	Report
Zinc <u>5</u> /	1.99	1.99			Report	Report
Pentachlorophenol <u>6</u> /	2.24	3.53			0.18	0.36
Phenol 6/	108.6	31.71			3	6

^{1/} For Biochemical Oxygen Demand (BOD₅) and Total Suspended Solids (TSS), the proposed limitations will not change from the previously issued permit. Data supplied in the application supports this decision.

^{2/} For Oil and Grease, the proposed limitations are the Categorical Standards from 40 CFR Part 429.

- 3/ For Arsenic, the proposed limitations will not change from the previously issued permit. DMR data supports this decision.
- 4/ For Chromium and Copper, the proposed limitations will not change from the previously issued permit. DMR and application data supports this decision.
- 5/ For Nickel and Zinc, the proposed limitations are based on water quality. The application data submitted only represented one sampling event. Nickel (0.04 mg/l) was reported below the established water quality criteria (acute: 0.787 mg/l, chronic: 0.087 mg/l) while Zinc (1.36 mg/l) was reported above the established water quality criteria (acute: 0.0636 mg/l, chronic: 0.0581 mg/l). Based on these circumstances, both nickel and zinc will be added to the permit; both will be on a "report only" basis.
- 6/ For Pentachlorophenol and Phenol, the proposed limitations are will not change from the previously issued permit. The limits for both Pentachlorophenol and Phenol are less than the AWQC and HWI.

Note: Flow, pH limits, and sampling frequencies will remain unchanged from the previously issued permit. Sampling frequencies for both Nickel and Zinc will be set at Twice/Year along with other permitted heavy metals.

Attachment A

Raw WET Data from the Grenada POTW

Removal Eff.	it values		ilt values		calc re		calc re		e lit values		e lit values		e lit values		calc re		calc re	3	e lit values	
	<0.005 use lit values	<0.005	<0.020 use lit values	<0.020	<0.050	<0.050	000	<0.010	<0.050 use lit values	<0.050	<0.0002 use lit values	<0.0002	<0.020 use lit values	<0.020	<0.005	<0.005	90.0	<0.025	<0.010 use lit values	<0.010
04/18/2000 04/19/2000	<0.005	<0.005	<0.020	<0.020	<0.050	<0.050	90.0	<0.010	<0.050	<0.050	<0.0002	<0.0002	<0.020	<0.020	<0.005	<0.005	0.05	<0.025	<0.010	<0.010
03/07/2000 04/	<0.005	<0.005	<0.005	<0.005	<0.050	<0.050	90.0	0.01	<0.050	<0.050	<0.0002	<0.0002	<0.040	<0.040	<0.050	<0.050	0.1	0.15	<0.010	<0.01
/06/2000 03	<0.005	<0.005	<0.005	<0.050	<0.050	<0.050	0.1	0.01	<0.050	<0.050	<0.0002	<0.0002	<0.040	<0.040	<0.050	<0.050	0.15	0.02	<0.010	<0.010
12/07/1999 01/04/2000 01/05/2000 02/02/2000 02/07/2000 03/06/2000	<0.005	<0.005	<0.005	<0.005	<0.050	<0.050	0.00	0.01	<0.050	<0.050	<0.0002	<0.0002	<0.040	<0.040	70'0	<0.050	0.12	<0.020	<0.010	<0.010
2/02/2000 02	<0.005	<0.005	<0.005	<0.005	<0.050	<0.050	0. 3	0.01	<0.050	<0.050	<0.0002	<0.0002	<0.040	<0.040	<0.050	<0.050	90'0	<0.020	<0.010	<0.010
1/05/2000 0	<0.005	<0.005	<0.005	<0.005	<0.050	<0.050	0.15	0.01	<0.050	<0.050	<0.0002	<0.0002	<0.040	<0.040	<0.050	<0.050	0.08	0.03	<0.010	<0.010
1/04/2000 0	<0.005	<0.005	<0.005	<0.005	<0.050	<0.050	0.1	0.01	<0.050	<0.050	<0.0002	<0.0002	<0.040	<0.040	<0.050	<0.050	0.08	<0.020	<0.010	<0.010
2/07/1999 0	<0.005	<0.005	<0.005	<0.005	0.35	<0.050	0.18	<0.010	<0.050	<0.050	<0.0002	<0.0002	<0.040	<0.040	<0.050	<0.050	80.0	<0.020	<0.010	<0.010
الما	<0.005	<0.005	<0.005	<0.005	0.19	<0.050	0.28	<0.010	<0.050	<0.050	<0.0002	<0.0002	<0.040	<0.040	<0.050	<0.050	0.08	<0.020	<0.010	<0.010
1/09/1999 1	<0.005	<0.005	<0.005	<0.005	<0.050	<0.050	0.07	<0.010	<0.050	<0.050	<0.0002	<0.0002	<0.040	<0.040	<0.050	<0.050	*0.14	0.09	<0.010	<0.010
units stream 11/08/1999 11/09/1999 12/06/1999	<0.005	<0.005	<0.005	<0.005	<0.050	<0.050	<0.010	0.04	<0.050	<0.050	<0.0002	<0.0002	<0.040	<0.040	<0.050	<0.050	0.12	0.28	<0.010	<0.010
units stream	mg/L Inf	Eff	ng/L Inf	Eff	ng/L Inf	Eff	mg/L Inf	E	mg/L Inf	ĒŰ	mg/L Inf	ΕЩ	mg/L Inf	Ē	mg/L Inf	E#	mg/L Inf	Εŧ	mg/L Inf	Eff
Parameter	Arsenic (As)		Cadmium (Cd) mg/L Inf		Chromium (Cr) mg/L Inf		Copper (Cu)		Lead (Pb)		Mercury (Hg)		Nickel (Ni)	,	Silver (Ag)		Zinc (Zn)		Cyanide (CN)	

Data points used in the calculation of the removal efficiencies.
Less than values used in the calculation of the removal efficiencies were divided by 2.

Removal Efficiencies for the Grenada POTW

		11/W01/000 44//00/1000 12/06/1009	100/1000 12		10 6661/10/	04/2000 01/	105/2000 02/	102/2000 02	12/07/1999 01/04/2000 01/05/2000 02/02/2000 02/07/2000 03/06/2000 03/07/2000 04/18/2000 04/19/2000	06/2000 03	107/2000 04/	18/2000 04/	- 11	Removal Eff.
Parameter Arsenic (As)	units stream	<0.005	<0.005	II .	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	¥.
	#	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Cadmium (Cd) mg/L Inf	mg/L Inf	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	<0.020	ž
) #II	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.020	<0.020	
Chromium (Cr) mg/L Inf	mg/L Inf	<0.050	<0.050	0.19	0.35	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	91%
	Eff	<0.050	<0.050	0.025	0.025	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Copper (Cu)	mg/L inf	<0.010	0.07	0.2	0.18	0.51	0.15	0.13	60:0	1:0	90.0	9.05	0.07	%56
	Eff	0.04	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.002	
Lead (Pb)	mg/L Inf	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	Ž
	Eff	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Mercury (Ha)	ma/L Inf	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	¥.
	# <u></u>	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Nickel (Ni)	mg/L Inf	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.020	<0.020	₹
	Eff	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.020	<0.020	
Silver (Ag)	mg/L Inf	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	20.0	<0.050	<0.050	<0.005	<0.005	64%
	E#	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.025	<0.050	<0.050	<0.005	<0.005	
Zinc (Zn)	mg/L Inf	0.12	0.14	0.08	80.0	0.08	0.08	90.0	0.12	0.15	O	0.05	9000	64%
	Eff	0.28	0.09	0.01	56 2 3 2	0.01	0.03	0.01	0.01	0.02	0.15	0.0125	0.0125	
Cvanide (CN) mg/L Inf	mg/L Inf	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	¥.
	Eff	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	

Data points used in the calculation of the removal efficiencies.
Less than values used in the calculation of the removal efficiencies were divided by 2.

Grenada POTW Sewer Domestic Concentrations

Parameter	units	units stream	11/08/1999	11/08/1999 11/09/1999		12/07/1999 01/04/2000 01/05/20150 00/05/20150	1/04/2000 0	1/05/2000 03	0 0006/60/6	0 000012016	2006/2000	o doctrois	000000	00000
Arsenic (As)	mg/L Inf		0.0025	0.0025		0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
		Eff	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Cadmium (Cd) mg/L Inf) mg/L lı	jį.	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.01	0.01
	Ш	Eff	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.01	0.01
Chromium (Cr) mg/L Inf) mg/L lr	" E	0.025	0.025	0.19	0.35	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
	Ш	Eff	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Copper (Cu)	mg/L Inf	j <u>e</u>	0.005	0.07	0.28	0.18	0.51	0.15	0.13	0.09	0.1	90.0	0.05	0.07
		Eff	0.04	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.005
Lead (Pb)	mg/L Inf	٦	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
	Ш	Eff	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Mercury (Hg)	mg/L Inf) =	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	Ш	Eff	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Nickel (Ni)	mg/L Inf	% =	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.05	0.01	0.01
	Ш	Eff	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01
Silver (Ag)	mg/L Inf	} _	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.07	0.025	0.025	0.025	0.025
	Ш	Eff	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Zinc (Zn)	mg/L Inf	* =	0.12	0.14	0.08	0.08	0.08	0.08	0.08	0.12	0.15	0.1	0.05	90.0
	ŭ	Eff	0.28	0.09	0.01	0.01	0.01	0.03	0.01	0.01	0.02	0.15	0.0125	0.0125
Cyanide (CN)	mg/L Inf	*	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	Ψ	Eff	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

Less than values used in the calculation of the domestic concentrations were divided by 2. (See raw data for identification of original less than values.) Facilities domestic concentrations based on influent POTW domestic concentrations only.

Background Concentration in Domestic Sewage

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<u>5</u>	Month	Month 11/08/1999 11/09/1999	11/09/1999	12/06/1999	12/07/1999	01/04/2000	01/05/2000	02/02/2000	12/06/1999 12/07/1999 01/04/2000 01/05/2000 02/02/2000 02/07/2000		03/06/2000 03/07/2000 04/18/2000	04/18/2000	04/19/2000
	POTW Data Conc Flow Total Load	0.0025 1.592 0.0331932	0.0025 1.592 0.0331932	0.0025 1.743 0.0363416	0.0025 1.743 0.0363416	0.0025 1.781 0.0371339	0.0025 1.781 0.0371339	0.0025 1.825 0.0380513	0.0025 1.825 0.0380513	0.0025 2.167 0.045182	0.0025 2.167 0.045182	0.0025 2.800 0.05838	0.0025 2.800 0.05838
	Koppers⁴ Flow Load	0.014086 0	0.014086 0	0.020625 0	0.020625	0.019516 0	0.019516 0	0.013334	0.013334 0	0.015058 0	0.015058 0	No Data Available	No Data Available
·	Binswanger Flow Load	¥	Š	Š	A	Š	Ā	Š	Ā	Ā	Ą	Ą	ž
	Heatcraft ADP outfall 001 Flow Load	¥	¥	Š	ş	¥	ş	ş	∀ Z	₹	& Z	Š	Ž
- — -	Heatcraft ADP outfall 002 Flow Load	Ą	¥	ş	ş	ş	Š	ş	&	Š	Š	∀	Ž
_	Heatcraft North Flow Load	A A	Š	Ϋ́ V	Š	Ą	A A	Š	N A	¥	Ā	Z Y	ž
_ 	Heatcraft South Flow Load	Y Y	Ą.	Ą.	Ą.	V	N A	Υ V	Ą	Ą	¥	Ą	ž
- 	Pennaco Flow Load	Š	N A	V	¥.	N A	NA	N A	A	¥	¥ ¥	¥	Ž
-	Valley Racks Flow Load	Š	N A	N A	N A	N A	A A	V	¥	Ā	¥	¥	ž

Monthly Domestic Calculations:

Domestic Load, #/d 0.0191072 0.0191072 0.0157166 0.0157166 0.0176179 0.0176179 0.0247173 0.0247173 0.030124 0.030124

Domestic Conc, mg/l 0.0014519 0.0014519 0.0010941 0.0010941 0.0011992 0.0011992 0.0016359 0.0016359 0.0016785

Domestic Average Load, #/d 0.0214566 Domestic Average Conc, mg/l 0.0014119

Background Concentration in Domestic Sewage

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Copper	Month	11/08/1999	11/09/1999	12/06/1999	12/07/1999	01/04/2000 01/05/2000		02/02/2000	02/01/2000	03/06/2000	03/07/2000	04/18/2000	04/19/2000
	POTW Data Conc Flow Total Load	0.005 1.592 0.0663864	0.070 1.592 0 .9294096	0.280 1.743 4.0702536	0.180 1.743 2.6165918	0.510 1.781 7.5753054	0.150 1.781 2.228031	0.130 1.825 1.978665	0.090 1.825 1.369845	0.100 2.167 1.807278	0.060 2.167 1.0843668	0.050 2.800 1.1676	0.070 2.800 1.63464
	Koppers* Flow Load	0.014086	0.014086	0.020625	0.020625	0.0348	0.0348	0.0314	0.0314	0.0298 0.001	0.0298	Flow Data Flow Data Unavallable Unavallable	Flow Data Unavallable
	Binswanger Flow Load	0.080	0.080	0.080	0.080	0.080	0.080	0.070	0.070	0.070	0.070	0.070	0.070
	Heatcraft ADP outfall 001 Flow Load	0.023	0.023 0.054	0.01296 0.076	0.01296 0.076	0.032 0.075	0.032 0.075	0.044	0.044	0.0418	0.0418	0.036 0.515	0.036 0.515
	Heatcraft ADP** outfall 002 Flow Load	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	0.0003	0.0003	No Discharge	No Discharge
	Heatcraft North Flow*** Load	0.0273	0.0273	0.0235 0.135	0.0235 0.135	0.028 0.169	0.028 0.169	0.0297 0.137	0.0297 0.137	0.03	0.03	0.0298	0.0298 0.196
	Heatcraft South Flow*** Load	0.208	0.208	0.156 0.26	0.156	0.201	0.201	0.2049	0.2049	0.196	0.196 0.17	0.2048	0.2048
	Pennaco Flow Load	¥	Š	N A	N A	¥.	Š	¥ V	¥	Š	ş	¥	¥ Ž
	Valley Racks Flow Load	No Data Avallable	No Data Available	No Data Avallable	No Data Available	0.0011	0.0011	0.0011	0.001	No Discharge	No Discharge	0.0011	0.0011
Monthly Domesi	Monthly Domestic Calculations: Domestic Load, #/d Domestic Conc, mg/f	-0.468 -0.0452318	0.395 0.0382458	3.368 0.2785447	1.915 0.1583308	6.439 0.5498497	1.092 0.0932481	-0.580	-1.189 -0.0987428	0.040	-0.0454877	0.176 0.0085611	0.643 0.0313309

Domestic Average Load, #/d 1.759 Domestic Average Conc, mg/l 0.1450994

Background Concentration in Domestic Sewage

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Chromium	Month	Month 11/08/1999 11/09/1999		12/06/1999	12/06/1999 12/07/1999 01/04/2000	01/04/2000	01/05/2000	02/02/2000	02/07/2000	03/06/2000	03/07/2000	04/18/2000	04/19/2000
	POTW Data Conc Flow Total Load	0.025 1.592 0.331932	0.025 1.592 0.331932	0.190 1.743 2.7619578	0.350 1.743 5.087817	0.025 1.781 0.3713385	0.025 1.781 0.3713385	0.025 1.825 0.3805125	0.025 1.825 0.3805125	0.025 2.167 0.4518195	0.025 2.167 0.4518195	0.025 2.800 0.5838	0.025 2.800 0.5838
	Koppers Flow Load	0	0	0	0	0	0	0	0	0	0	0	0
	Binswanger* Flow Load	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Heatcraft ADP outfall 001 Flow Load	Š	Ą	Š	ş	Š	¥	Š	¥	Š	¥	S	V
	Heatcraft ADP outfall 002 Flow Load	¥	¥	Š	ş	¥	Ą	Š	¥	V	V	A	V
	Heatcraft North Flow** Load	0.0273	0.0273	0.0235	0.0235	0.028	0.028	0.0297	0.0297	0.03	0.03	0.0298	0.0298
	Heatcraft South Flow** Load	0.208	0.208	0.156 0.03	0.156 0.03	0.201	0.201	0.2049 0.045	0.2049	0.196 0.035	0.196 0.035	0.2048	0.2048
	Pennaco Flow Load	0.046	0.046	0.064 0.18	0.064	0.089	0.089	0.075	0.075	0.071	0.071	0.08 7 0.16	0.087 0.16
	Valley Racks*** Flow Load	No Data Available	No Data Available	No Data Available	No Data Available	0.0011	0.0011 0.0005	0.0011	0.0001	No Discharge	No Discharge	0.0011	0.0011
Monthly Domestic Calculations: Domestic Lo Domestic Cor	c Calculations: Domestic Load, #/d Domestic Conc, mg/l	0.212 0.0194335	0.212 0.0194335	2.547 0.2037016	4.873 0.3896836	0.255 0.0209427	0.255	0.211 0.0167082	0.211 0.0167082	0.302 0.0193526	0.302 0.0193526	0.396 0.0191814	0.396 0.0191814

Domestic Average Load, #/d 0.848
Domestic Average Conc, mg/l 0.0653852

Twice per year frequency
 Maximum flow reported only
 1-6/00 7-12/00 reported as NOB!

TABLE 3-13. TYPICAL DOMESTIC WASTEWATER LEVELS*

Pollutant	Concentration,	mg/l
Cadmium	0.003	
Chromium	0.05	
Copper	0.061	
Lead	0.049	
Nickel	0.021	
Zinc	0.175	
Arsenic	0.003	
Mercury	0.0003	
Silver	0.005	
Cyanide	0.041	

^{*}From "Assessment of the Impacts of Industrial Discharges on Publicly Owned Treatment Works, Appendices," prepared by JRB Associates for the U.S. Environmental Protection Agency, November 1981, p. C-38.

TABLE 3-10. PRIORITY POLLUTANT REMOVAL EFFICIENCIES THROUGH ACTIVATED SLUDGE TREATMENT*

Metals/Nonmetal Inorganics**	Range	Second Decile	Median	Eighth Decile	No. of POTWs with Removal Dat
Cadmium	25-99	33	67	91	19 of 26
Chromium	25-97	68	82	91	25 of 26
Copper	2-99	67	86	95	26 of 26
Lead	1-92	39	61	76	23 of 26
Nickel	2-99	25	42	62	23 of 26
Zinc	23-99	64	79	88	26 of 26
Augusta	11-78	31	45	53	5 of 26
Arsenic	1-95	50	60	79	20 of 26
Mercury	25-89	33	50	67	4 of 26
Selenium	17-95	50	75	88	24 of 26
Silver	3-99	41	69	84	25 of 26
Cyanide	3-77	71	0,7	0.4	25 02 50
Organics**					W.
Benzene	25-99	50	80	96	18 of 26
Chloroform	17-99	50	67	83	24 of 26
1,2-trans-Dichloroethylene	17-99	50	67	91	17 of 26
Ethylbenzene	25-99	67	86	97	25 of 26
Methylene chloride	2-99	36	62	77	26 of 26
Tetrachloroethylene	15-99	50	80	93	26 of 26
Toluene	25-99	80	93	98	26 of 26
1,1,1-Trichloroethane	18-99	75	85	94	23 of 26
Trichloroethylene	20-99	75	89	98	25 of 26
Anthracene	29-99	44	67	91	5 of 26
Bis (2-ethylhexyl) phthalate	17-99	47	72	87	25 of 26
Butyl benzyl phthalate	25-99	50	67	92	16 of 26
Di-n-butyl phthalate	11-97	39	64	87	19 of 26
Diethyl phthalate	17-98	39	62	90	15 of 26
Napthalene	25-98	40	78	90	16 of 26
Phenanthrene	29-99	37	68	86	6 of 26
Phenol	3-99	75	90	98	19 of 26
Pyrene	73-95	76	* 86	95	2 of 26

^{*}Pollutant removals between POTW influent and secondary effluent (including secondary clarification). Based on a computer analysis of POTW removal efficiency data, (derived from actual POTW influent and effluent sampling data) provided in Fate of Priority Pollutants in Publicly Owned Treatment Works, Volume II, (EPA 440/1-82/303), U.S. Environmental Protection Agency, Washington, D.C., September 1982.

^{**}For the purpose of deriving removal efficiencies, effluent levels reported as below detection were set equal to the reported detection limits. All secondary activated sludge treatment plants sampled as part of the study were considered.

TABLE 3-2. ACTIVATED SLUDGE INHIBITION THRESHOLD LEVELS

Pollutant	Minimum Reported Inhibition Threshold mg/l	Reported Range of Inhibition Threshold Level, mg/l	Laboratory, Pilot, or Full-scale	References*
Metals/Nonmetal	Inorganics			
Cadmium	1	1 - 10	Unknown	(29), (32)
Chromium (Tota	1) 1	1 - 100	Pilot	(28)
Chromium (III)	10	10 - 50	Unknown	(29), (32)
Chromium (VI)	1	1	Unknown	(29), (32)
Copper	1	1	Pilot	(29), (28), (32)
Lead	0.1	0.1 - 5.0 10 - 100	Unknown Lab	(32) (28)
Nickel	1	1.0 - 2.5 5	Unknown Pilot	(29), (32) (28)
Zinc	0.08	0.08 - 5 5 - 10	Unknown Pilot	(32) (28)
Arsenic	0.1	0.1	Unknown	(28), (29), (32)
Mercury	0.1	0.1 - 1 2.5 as Hg (II)	Unknown Lab	(29), (32) (28)
Silver	0.25	0.25-5	Unknown	(29), (32)
Cyanide	0.1	0.1 - 5 5	Unknown Full	(28), (29), (32) (28)
Ammonia	480	480	Unknown	(46)
Iodine	10	10	Unknown	(46)
Sulfide	25	25 - 30	Unknown	(46)
Organics:				8
Anthracene	500	500	Lab	(28)
Benzene	100	100 - 500 125 - 500	Unknown Laboratory	(32) (28)

^{*}References did not distinguish between total or dissolved pollutant inhibition levels.

TABLE 3-2. ACTIVATED SLUDGE INHIBITION THRESHOLD LEVELS (Continued)

Pollutant	Minimum Reported Inhibition Threshold mg/l	Reported Range of Inhibition Threshold Level, mg/l	Laboratory, Pilot, or Full-scale	References*
2-Chlorophenol	5	5 20 - 200	Unknown Unknown	(29) (32)
1,2 Dichlorobe	nzene 5	5	Unknown	(29)
1,3 Dichlorobe	nzene 5	5	Unknown	(29)
1,4 Dichlorobe	nzene 5	5	Unknown	(29)
2,4-Dichloroph	enol 64	64	Unknown	(32)
2,4 Dimethylph	enol 50	40 - 200	Unknown	(32)
2,4-Dinitrotol	uen e 5	5	Unknown	(29)
1,2-Diphenylhy	drazine 5	5	Unknovn	(29)
Ethylbenzene	200	200	Unknown	(32)
Hexachlorobenz	ene 5	5	Unknown	(29)
Naphthalene	500	500 500 500	Lab Unknown Unknown	(28) (29) (32)
Nitrobenzene	30	30 - 500 500 500	Unknown Lab Unknown	(32) (28) (29)
Pentachlorophe	enol 0.95	0.95 50 75 - 150	Unknown Unknown Lab	(29) (32) (28)
Phenathrene	500	500 500	Lab Unknown	(28) (29)
Phenol	50	50 - 200 200 200	Unknown Unknown Unknown	(32) (29) (28)
Toluene	200	200	Unknown	(32)
2,4,6 Trichlor	cophenol 50	50 - 100	Lab	(28)
Surfactants	100	100 - 500	Unknown	(46)

^{*}References did not distinguish between total or dissolved pollutant inhibition levels.

OBSERVED REMOVAL EFFICIENCY vs. LITERATURE REMOVAL EFFICIENCY ()

PARAMETER	CONVENTIONAL LAGOONS	AERATED LAGOONS	TRICKLING FILTERS	ACTIVATED SLUDGE
Chromium	83% (NA)	24% (NA)	55-% (55%)	78% (82%)
Zinc	66% (NA)	75% (NA)	65% (67%)	68% (79%)
Copper	61% (NA)	70% (NA)	62% (61%)	62% (86%)
Lead	.56% (NA)	53% (NA)	63% (55%)	62% (61%)
Cyanide	81% (NA)	NA (NA)	NA (59%)	62% (69%)
ilver	74% (NA)	NA (NA)	62% (66%)	75% (75%)
Cadmium	75% (NA)	NA (NA)	10% (68%)	63% (67%)
Nickel	32% (NA)	56% (NA)	56% (29%)	49% (42%)
PCP	NA (NA)	71% (NA)		77% (NA)
Phenol	72% (NA)	71% (NA)	48% (84%)	55% (90%)

NOTE: NA = NOT AVAILABLE

TABLE 3-2. ACTIVATED SLUDGE INHIBITION THRESHOLD LEVELS

Pollutant	Minimum Reported Inhibition Threshold mg/l	Reported Range of Inhibition Threshold Level, mg/l	Laboratory, Pilot, or Full-scale	References*
Metals/Nonmetal	Inorganics			
Cadmium	1	1 - 10	Unknown	(29), (32)
Chromium (Tota	1	1 - 100	Pilot	(28)
Chromium (III)	10	10 - 50	Unknown	(29), (32)
Chromium (VI)	1	1	Unknown	(29), (32)
Copper	1	1	Pilot	(29), (28), (32)
Lead	0.1	0.1 - 5.0 10 - 100	Unknown Lab	(32) (28)
Nickel	1	1.0 - 2.5 5	Unknown Pilot	(29), (32) (28)
Zinc	0.08	0.08 - 5 5 - 10	Unknown Pilot	(32) (28)
Arsenic	0.1	0.1	Unknown	(28), (29), (32)
Mercury	0.1	0.1 - 1 2.5 as Hg (II)	Unknown Lab	(29), (32) (28)
Silver	0.25	0.25-5	Unknown	(29), (32)
Cyanide	0.1	0.1 - 5 5	Unknown Full	(28), (29), (32) (28)
Ammonia	480	480	Unknown	(46)
Iodine	10	10	Unknown	(46)
Sulfide	25	25 - 30	Unknown	(46)
Organics:				
Anthracene	500	500	Lab	(28)
Benzene	100	100 - 500 125 - 500	Unknown Laboratory	(32) (28)

^{*}References did not distinguish between total or dissolved pollutant inhibition levels.

TABLE 3-2. ACTIVATED SLUDGE INHIBITION THRESHOLD LEVELS (Continued)

Pollutant	Minimum Reported Inhibition Threshold mg/l	Reported Range of Inhibition Threshold Level, mg/l	Laboratory, Pilot, or Full-scale	References*
2-Chlorophenol	5	5 20 - 200	Unknown Unknown	(29) (32)
1,2 Dichlorober	nzene 5	5	Unknown	(29)
1,3 Dichlorober	nzene 5	5	Unknown	(29)
1,4 Dichlorober	nzene 5	5	Unknown	(29)
2,4-Dichlorophe	enol 64	64	Unknown	(32)
2,4 Dimethylpho	enol 50	40 - 200	Unknown	(32)
2,4-Dinitrotol	uene 5	5	Unknown	(29)
1,2-Diphenylhy	drazine 5	5	Unknown	(29)
Ethylbenzene	200	200	Unknown	(32)
Hexachlorobenz	ene 5	5	Unknown	(29)
Naphthalene	500	500 500 500	Lab Unknown Unknown	(28) (29) (32)
Ni trobenzene	30	30 - 500 500 500	Unknown Lab Unknown	(32) (28) (29)
Pentachlorophe	nol 0.95	0.95 50 75 - 150	Unknown Unknown Lab	(29) (32) (28)
Phenathrene	500	500 500	Lab Unkno vn	(28) (29)
Phenol	50	50 - 200 200 200	Unknown Unknown Unknown	(32) (29) (28)
Toluene	200	200	Unknown	(32)
2,4,6 Trichlor	ophenol 50	50 - 100	Lab	(28)
Surfactants	100	100 - 500	Unknown	(46)

^{*}References did not distinguish between total or dissolved pollutant inhibition levels.

OBSERVED REMOVAL EFFICIENCY vs. LITERATURE REMOVAL EFFICIENCY ()

PARAMETER	CONVENTIONAL LAGOONS	AERATED LAGOONS	TRICKLING FILTERS	ACTIVATED SLUDGE
Chromium	-83% (NA)	24% (NA)	55% (55%)	78% (82%)
Zinc	66% (NA)	75% (NA)	65% (67%)	68% (79%)
Copper	61% (NA)	70% (NA)	62% (61%)	62% (86%)
Lead	.56% (NA)	53% (NA)	63.% (55%)	62% (61%)
Cyanide	81% (NA)	NA (NA)	NA (59%)	62% (69%)
ilver	74% (NA)	NA (NA)	62% (66%)	75% (75%)
Cadmium	75% (NA)	NA (NA)	10% (68%)	63% (67%)
Nickel	32% (NA)	56% (NA)	56% (29%)	49% (42%)
PCP	NA (NA)	71% (NA)	77% (NA)	77% (NA)
Phenol	72% (NA)	71% (NA)	48% (84%)	55% (90%)

NOTE: NA = NOT AVAILABLE

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STATE OF MISSISSIPPI WATER POLLUTION CONTROL PERMIT

TO OPERATE A WASTE DISPOSAL SYSTEM IN ACCORDANCE WITH NATIONAL AND STATE PRETREATMENT STANDARDS

THIS CERTIFIES THAT

Koppers Industries Inc Tie Plant Road Grenada, Mississippi

has been granted permission to discharge wastewater into

Grenada POTW (MS0020397)

in accordance with effluent limitations, monitoring requirements and other conditions set forth in this permit. This permit is issued in accordance with the provisions of the Mississippi Water Pollution Control Law (Section 49-17-1 et seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder, and under authority granted pursuant to Section 402(b) of the Federal Water Pollution Control Act.

The issuance of this permit does not relieve the permittee from complying with any requirements which the Publicly Owned Treatment Works (POTW) Authority may deem necessary as a prerequisite to the use of the Authority's sewage system and associated treatment works.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued: Issuance Date Expires: Expiration Date

Permit No.: MSP090300

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Ą.

During the period beginning upon Issuance Date permit issuance, and lasting until Expiration Date, the permittee is authorized to discharge from outfall(s) serial number(s): 001 (Total Facility Discharge) **-**i

Such discharges shall be limited and monitored by the permittee as specified below:

		DISCHARGE LIMITATIONS	LIMITATIONS		MONITORING REQUIREMENTS	UIREMENTS
PARAMETER	kg/day	(lbs/day)	Other Units (Specify)	(Specify)		
	Monthly Avg.	Daily Max.	Monthly Avg.	Daily Max.	Frequency	Sample Type
Flow (MGD)			Report	0.035	Daily	Continuous
Biochemical Oxygen Demand (5-day)	32 (70)	63 (140)	240 mg/L	480 mg/L	Once/Week	24-Hr. Composite
Total Suspended Solids	40 (88)	79 (175)	300 mg/L	T/gm 009	Once/Week	24-Hr. Composite
Total Phenols	0.40 (0.88)	0.79 (1.75)	3 mg/L	6 mg/L	Once/Week	Grab
Pentachlorophenol	0.024 (0.053)	0.048 (0.105)	0.18 mg/L	0.36 mg/L	Once/Week	Grab
Oil and Grease	Report	13.2 (29.2)	Report mg/L	100 mg/L	Once/Week	Grab

		DISCHARGE	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	UIREMENTS
PARAMETER	kg/day	(Ibs/day)	Other Units (Specify)	(Specify)		
	Yearly Avg.	Yearly Max.	Yearly Avg.	Yearly Max.	Measurement	Sample Type
Copper, Total Recoverable	Report	0.291 (0.642)	Report mg/L	2.2 mg/L	Twice/Year	24-Hr. Composite
Chromium, Total Recoverable	Report	0.529 (1.168)	Report mg/L	4.0 mg/L	Twice/Year	24-Hr. Composite
Arsenic, Total Recoverable	Report	0.060 (0.131)	Report mg/L	0.45 mg/L	Twice/Year	24-Hr. Composite
Nickel, Total Recoverable	Report	Report	Report mg/L	Report mg/L	Twice/Year	24-Hr. Composite
Zinc, Total Recoverable	Report	Report	Report mg/L	Report mg/L	Twice/Year	24-Hr. Composite

The pH shall not be less than 5.5 standard units nor greater than 9.5 standard units and shall be monitored twice per week with a grab sample of the effluent.

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Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): the nearest accessible point after final treatment but prior to actual discharge into the POTW collection system or mixing with nonregulated wastewater streams.

B. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the effluent limitations specified for discharge in accordance with the following schedule:

Upon permit issuance.

2. Within 14 days after either an interim or final date of compliance specified in Part I.B.1., the permittee shall provide the Permit Board with written notice of his compliance or noncompliance with the requirements or conditions specified to be completed by that date. Failure to submit the written notice to the Permit Board shall be considered a violation of the compliance requirements of the permit, for which the Commission may be asked to take enforcement action.

Not Applicable.

C. GENERAL PRETREATMENT PROHIBITIONS

- 1. In addition to those pollutants limited in Part I.A., the following pollutants shall not be discharged into the POTW:
 - a) Pollutants which create a fire or explosion hazard in the POTW, including but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21;
 - b) Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0, unless the treatment works is specifically designed to accommodate such discharges;
 - c) Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in interference;
 - d) Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the POTW;
 - e) Heat in amounts which will inhibit biological activity in the POTW resulting in interference, but in no case heat in such quantities that the temperature at the POTW treatment plant exceeds 40oC (104oF) unless the approval Authority, upon request of the POTW, approves alternate temperature limits;
 - f) Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;

- g) Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems;
- h) Any trucked or hauled pollutants, except at discharge points designated by the POTW.

D. ORAL NOTIFICATION REQUIREMENTS

The permittee shall notify the Mississippi Environmental Quality Permit Board and the POTW orally immediately upon becoming aware of the following:

- 1. A spill which would result in a discharge to the POTW or to State waters;
- 2. Any unanticipated bypass which exceeds any effluent limitation in the permit.
- 3. Any upset which exceeds any effluent limitation in the permit.
- 4. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Permit Board in the permit to be reported within 24 hours.

Part II.

A. MANAGEMENT REQUIREMENTS AND RESPONSIBILITIES

1. No Discharge of Wastewater to Surface Water

The discharge of any wastewater from this facility to the waters of the State of Mississippi shall constitute a violation of this permit, except as provided in Part II, A.4. and A.5. of this permit, or as authorized under separate permit pursuant to Section 402 of the Federal Water Pollution Control Act.

2. Change in Wastewater Source

Any facility expansion, production increases, process modifications, changes in discharge volume or location or other changes in operations or conditions of the permit which may result in a new or increased discharge of waste, shall be reported to the Permit Board by submission of a new application for a permit pursuant to Chapter One, Section II.A. of the State of Mississippi Wastewater Permit Regulations, or if the discharge does not violate effluent limitations specified in the permit, by submitting to the Permit Board a notice of a new or increased discharge.

3. Facilities Operation

The permittee shall at all times properly operate, maintain, and when necessary, promptly replace all facilities and systems of collection, treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures. Proper replacement includes maintaining an adequate inventory of replacement equipment and parts for prompt replacement when necessary to maintain continuous collection and treatment of wastewater. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit. The Permit Board may require regular reporting of internal operational and maintenance parameters where necessary to confirm proper operation of a waste treatment system.

4. Bypassing 40 CFR 403.17

- a) Definition. "Bypass" means the intentional diversion of wastestreams from any portion of the permittee's treatment facility.
- b) Notice of Bypass.
 - (1) If the permittee knows in advance of the need for a bypass, it shall submit

prior notice to the Permit Board, if possible at least ten days before the date of the bypass.

- The permittee shall submit oral notice of an unanticipated bypass that exceeds applicable Pretreatment Standards to the Permit Board within 24 hours from the time the permittee becomes aware of the bypass. A written submission shall also be provided within 5 days of the time the permittee 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 recurrence of the bypass. The Permit Board may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- c) Prohibition of bypass. Bypass is prohibited, and the Permit Board may take enforcement action against the permittee for a bypass, 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 back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal period of equipment downtime or preventative maintenance; and
 - (3) The permittee submitted notices as required under paragraph (b) of this section.

5. Upsets 40 CFR 403.16

- a) Definition. "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 permittee. 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.
- b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with categorical pretreatment standards if the requirements of paragraph (c) of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to

judicial review.

- c) Conditions necessary for demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The facility was at the time being properly operated in a prudent and workmanlike manner and in compliance with applicable operation and maintenance procedures; and
 - (3) The permittee submitted notice of the upset as required in 40 CFR 403.16 (c)(3) (24-hour notice of noncompliance).
- d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.
- e) User responsibility in case of upset. The Industrial User shall control production or all discharges to the extent necessary to maintain compliance with categorical Pretreatment Standards upon reduction, loss, or failure of its treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where among other things, the primary source of power of the treatment facility is reduced, lost or fails.

Removed Substances

Solids, sludges, filter backwash, or other residuals removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent such materials from entering State waters and in a manner consistent with the Mississippi Solid Waste Disposal Act, the Federal Resource Conservation and Recovery Act, and the Mississippi Water Pollution Control Act.

7. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of the permit which has a reasonable likelihood of adversely affecting human health or the environment.

8. Power Failures

If electric power is required, in order to maintain compliance with the conditions and prohibitions of this permit, the permittee shall either:

a) Provide an alternative power source to operate the wastewater control facilities;

or, if such alternative power source is not in existence, and no date for its implementation appears in this permit,

b) Halt, reduce, or otherwise control production and/or all wastewater flows upon reduction, loss, or failure of the primary source of power to the wastewater control facilities.

9. Compliance with Permit Conditions

All discharges authorized by the permit shall be consistent with the terms and conditions of the permit and the permittee shall make all reasonable efforts to meet any interim or final dates for compliance specified therein.

10. Facility Expansion and/or Modification

Any facility expansion, production increases, process modifications, changes in discharge volume or location or other changes in operations or conditions of the permittee which may result in a new or increased discharge of waste, shall be reported to the Permit Board by submission of a new application for a permit, or if the discharge does not violate effluent limitations specified in the permit, by submitting to the Permit Board a notice of a new or increased discharge.

B. MONITORING, REPORTING, AND RECORDKEEPING

1. Routine Reporting

Such test results, reports, or other data as the Mississippi Environmental Quality Permit Board may determine to be necessary shall be submitted on a regular basis to the following address:

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY OFFICE OF POLLUTION CONTROL P. O. Box 10385

Jackson, Mississippi 39289-0385

2. Duty to Provide Information

The permittee shall furnish to the Permit Board, within a reasonable time, any information which the Permit Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The permittee shall also furnish to the Permit Board upon request, copies of records required to be kept by the permit.

3. Test Procedures

Testing procedures for the analysis of pollutants for all permits include those set forth

in 40 CFR 136 which is incorporated herein and adopted by reference or alternative procedures approved and/or promulgated by EPA.

4. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored wastewater.

5. Recording of Results

A permittee required to monitor a waste discharge pursuant to Chapter One, Section IV.A.28. of the State of Mississippi Wastewater Permit Regulations shall maintain records of all information obtained from such monitoring, including:

- 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, procedures or methods used; and
- e) The results of all required analyses.

6. Records Retention

- a) All records and results of monitoring activities, including calibration and maintenance records, shall be retained by the permittee a minimum of three (3) years unless otherwise required or extended by the Permit Board, copies of which shall be furnished to the Department upon request.
- b) The permittee shall furnish to the Permit Board upon request, copies of records required to be kept by this permit.

7. Falsifying Reports

Any permittee who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required by the Permit Board to be maintained as a condition in a permit, or who alters or falsifies the results obtained by such devices or methods and/or any written report required by or in response to a permit condition, shall be deemed to have violated a permit condition and shall be subject to the penalties provided for a violation of a permit condition pursuant to Section 49-17-43 of the Code.

8. Noncompliance Reporting

a) The permittee shall report any noncompliance which may endanger health or the

environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and/or prevent recurrence of the noncompliance.

- b) The following shall be included as information which must be reported within 24 hours under this paragraph.
 - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - (2) Any upset which exceeds any effluent limitation in the permit.
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Permit Board in the permit to be reported within 24 hours.
- c) The Executive Director may waive the written report on a case-by-case basis for reports under paragraph a. of this section if the oral report has been received within 24 hours.

9. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Part I.D or Part II.B.6, at the time monitoring reports are submitted or within 30 days from the end of the month in which the noncompliance occurs. The reports shall contain the information listed in Part II.B.6.

10. Right of Entry

The permittee shall allow the Mississippi Environmental Quality Permit Board and/or their authorized representatives, upon the presentation of credentials:

- To enter upon the permittee's premises where a wastewater source is located or in which 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 wastewater generated at this facility.

c) In the event of investigation during an emergency response action, a reasonable time shall be any time of the day or night.

11. Transfer of Ownership or Control

This permit is not transferable to any person except after proper notice and approval by the Permit Board. In the event of any change in control or ownership of facilities, the permittee shall notify the Mississippi Environmental Quality Permit Board at least thirty (30) days in advance of the proposed transfer date. The notice should include a written agreement between the existing and new permittees containing a specific date for the transfer of permit responsibility, coverage, and liability.

12. Signatory Requirements 40 CFR 403.12(1)

All applications, reports, or information submitted to the Permit Board shall be signed and certified.

- a) All permit applications shall be signed as follows:
 - (1) For a corporation: by a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means: (1) a president, secretary, treasurer or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making function for the corporation, or (2) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding 25 million (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - (3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.
- b) All reports required by the permit and other information requested by the Permit Board shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - (1) The authorization is made in writing by a person described above;
 - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a

well field, superintendent, position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

- (3) The written authorization is submitted to the Permit Board.
- c) Changes to authorization. If an authorization under paragraph (b) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph (b) of this section must be submitted to the Permit Board prior to or together with any reports, information, or applications.
- d) Certification. Any person signing a document under paragraphs (a) or (b) of this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

13. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Permit Board, it shall promptly submit such facts or information.

14. Availability of Records

Except for data determined to be confidential under the Mississippi Air and Water Pollution Control Law, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Mississippi Office of Pollution Control.

15. Permit Modification

a) The permittee shall furnish to the Permit Board within a reasonable time any relevant information which the Permit Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit.

- b) The permit may be modified, revoked and reissued, or terminated for cause.
- c) The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

16. 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 any infringement of Federal, State, or local laws or regulations

17. 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 to under Section 311 of the Federal Water Pollution Control Act or the applicable provisions under Mississippi Law pertaining to the transportation, storage, treatment, or spillage of oil or hazardous substances.

18. Hazardous Waste Release

The permittee shall notify the Mississippi Department of Environmental Quality, the EPA Regional Waste Management Division Director, State hazardous waste authorities, and the POTW in writing of any discharge into the POTW of a substance, which, if otherwise disposed of, would be a hazardous waste under 40 CFR part 261. Such notification must include the name of the hazardous waste as set forth in 40 CFR part 261, the EPA hazardous waste number, and the type of discharge (continuous, batch, or other). If the Industrial User discharges more than 100 kilograms of such waste per calendar month to the POTW, the notification shall also contain the following information to the extent such information is known and readily available to the Industrial User: identification of the hazardous constituents contained in the wastes, as estimation of the mass and concentration of such constituents in the wastestream discharged during that calendar month, and an estimation of the mass of constituents in the wastestream expected to be discharged during the following twelve months. All notifications must take place within 180 days of the effective date of this rule. Industrial users who commence discharging after the effective date of this rule shall provide the notification no later than 180 days after the discharge of the listed or characteristic hazardous waste. Any notification under this paragraph need be submitted only once. However, notifications of changed discharges must be submitted under 40 CFR 403.12(j). The notification requirement in this section does not apply to pollutants already reported under the self-monitoring requirements of 40 CFR 403.12(b), (d), and (e).

b) Dischargers are exempt from the requirements of paragraph a. of this section during a calendar month in which they discharge no more than fifteen kilograms of hazardous wastes, unless the wastes are acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(d). Discharge of more than fifteen kilograms of non-acute hazardous wastes in a calendar month, or of any quantity of acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e), requires a one-time notification.

Subsequent months during which the Industrial User discharges more than such quantities of any hazardous waste do not require additional notification.

- c) In the case of any new regulations under section 3001 of RCRA identifying additional characteristics of hazardous waste or listing any additional substance as a hazardous waste, the Industrial User must notify the POTW, the EPA Regional Waste Management Division Director, and State hazardous waste authorities of the discharge of such substance within 90 days of the effective date of such regulations.
- d) In the case of any notification made under paragraph a. of this section, the Industrial User shall certify that it has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree it has determined to be economically practical.

19. Severability

The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby.

20. Closure Requirements

Should the permittee decide to permanently close and abandon the premises upon which it operates, it shall provide a Closure Plan to the Permit Board no later than 90 days prior to doing so. This Closure Plan shall address how and when all manufactured products, by-products, raw materials, stored chemicals, and solid and liquid waste and residues will be removed from the premises or permanently disposed of on site such that no potential environmental hazard to the waters of the State will be presented. Closure plan(s) submitted and approved to Mississippi Department of Environmental Quality for compliance with other environmental regulations will satisfy the closure requirements for those items specifically addressed in the closure plan(s) as long as the closure does not present a potential for environmental hazard to waters of the State.

21. Submittal of Discharge Monitoring Results

Monitoring reports. Monitoring results shall be reported at the intervals specified in the permit.

- a) Monitoring results must be reported on a Discharge Monitoring Report (DMR) and/or forms provided or specified by the Permit Board for reporting results of monitoring, of sludge use or disposal practices.
- b) If the permittee monitors any pollutant as prescribed in the permit more frequently than required by the permit using test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Permit Board.
- c) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Permit Board in the permit.
- d) If the results for a given sample analysis are such that any parameter (other than fecal coliform) is not detected at or above the minimum level for the test method used, a value of zero will be used for that sample in calculating an arithmetic mean value for the parameter. If the resulting calculated arithmetic mean value for that reporting period is zero, the permittee shall report "NODI = B" on the DMR. For fecal coliform, a value of 1.0 shall be used in calculating the geometric mean. If the resulting fecal coliform mean value is 1.0, the permittee shall report "NODI = B" on the DMR. For each quantitative sample value that is not detectable, the test method used and the minimum level for that method for that parameter shall be attached to and submitted with the DMR. The permittee shall then be considered in compliance with the appropriate effluent limitation and/or reporting requirement.
- e) Monitoring results obtained during the month shall be summarized and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), postmarked no later than the 28th day of the following month. The first report is due on [month day, year]. Copies of this, and any other reports required herein, shall be signed in accordance with Chapter One, Sections II.C and II.E of the State of Mississippi Wastewater Permit Regulations, and shall be submitted to the Mississippi Environmental Quality Permit Board at the following address:

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY OFFICE OF POLLUTION CONTROL P. O. Box 10385
Jackson, Mississippi 39289-0385

22. Expiration of Permit

At least 180 days prior to the expiration date of this permit pursuant to the State law and regulation, the permittee who wishes to continue to operate under this permit shall submit an application to the Permit Board for reissuance. The Permit Board may grant permission to submit an application later than this, but no later than the expiration date of the permit.

23. Civil and Criminal Liability

- a) Any person who violates a term, condition or schedule of compliance contained within this permit or the Mississippi Water Pollution Control Law is subject to the actions defined by law.
- b) Except as provided in permit conditions on "Bypassing" and "Upsets" (Part II, A-4 and 5), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.
- c) It shall not be the defense of the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

24. Protection of Confidential Information

- a) Pursuant to Miss. Code Ann. '49-17-39 and 40 CFR 123.41, the Permit Board shall make available to the public all information contained on any form and all public comments on such information. Effluent data and information concerning air or water quality shall also be made available to the public. Information that is determined by the Commission to be trade secrets shall not be disclosed to the public without prior consent of the source of such information. When a claim of confidentiality is made by a person in accordance with the provisions of Miss. Code Ann. '49-17-39, a recommendation on the questions of confidentiality shall be made by the Commission and forwarded to the Regional Administrator (or his/her designee) of EPA for his concurrence in such determination of confidentiality.
- b) A copy of a State, UIC, or NPDES permit application, public notice, fact sheet, draft permit and other forms relating thereto, including written public comment and other reports, files and information relating to the application not classified as confidential information by the Commission pursuant to Part II.B.21.a., shall be available for public inspection and copying during normal business hours at the office of the Department in Jackson, Mississippi.
- c) Upon determination by the Commission that information submitted by a permit applicant is entitled to protection against disclosure as trade secrets, the information shall be so labeled and otherwise handled as confidential. Copies

of the information and a notice of the Commission's action shall be forwarded to the Regional Administrator (or his/her designee). In making its determination of entitlement to protection as a trade secret, the Commission shall follow the procedure set forth in Miss. Code Ann. '49-17-39. In the event the Commission denies the claim of confidentiality, the applicant shall have, upon notification thereof, the right to appeal the Commission's determination in the same manner provided for other orders of the Commission. No disclosure, except to EPA, shall be allowed until any appeal from the determination of the Commission is completed.

25. Spill Prevention and Best Management Plans

Any permittee which has above ground bulk storage capacity, of more than 1320 gallons or any single container with a capacity greater than 660 gallons, of materials and/or liquids (including but not limited to, all raw, finished and/or waste material) with chronic or acute potential for pollution impact on waters of the State shall comply with the following conditions to prevent the potential release of these materials and storm water contaminated with these materials:

- a) Bulk storage not subject to Hazardous Waste Management Regulations or 40 CFR 112 (Oil Pollution Prevention) regulations shall be provided with secondary containment as found in 40 CFR 112 or equivalent protective measures;
- b) A Spill Prevention Control and Countermeasures (SPCC) Plan or Best Management Practices (BMP) Plan shall be maintained for any bulk storage subject to these requirements;
- c) Tank systems, not necessarily classified as bulk storage, are also subject to the conditions above.

26. Definitions

- a) "Toxic pollutants" include, but are not limited to: (a) any toxic substance listed in Section 307(a)(1) of the Clean Water Act (CWA), any chemical listed in Section 313(c) of the Superfund Amendments and Reauthorization Act of 1986; and (b) any substance (that is not also a conventional or nonconventional pollutant) for which EPA or the State has published an acute or chronic toxicity criterion.
- b) "Hazardous substances" are defined in 40 CFR 116.4.
- c) "Monthly average" means the average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during the month. The monthly average for fecal coliform bacteria is the geometric mean of "daily discharges" measured during the calendar month. In computing the

geometric mean for fecal coliform bacteria, the value one (1) shall be substituted for sample results of zero.

- d) "Weekly average" means the average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week. The weekly average for fecal coliform bacteria is the geometric mean of all "daily discharges" measured in a calendar week. In computing the geometric mean for fecal coliform bacteria, one (1) shall be substituted for sample results of zero. For self-monitoring purposes, the value to be reported is the single highest weekly average computed during a calendar month.
- e) "Daily maximum" means the highest "daily discharge" over a calendar month.
- 27. Other Specific Pretreatment Requirements
 - a) The permittee shall report the production rate for the process which generates the wastewater discharge as required by 40 CFR 403.12(e)(3).



Koppers Industries, Inc. Grenada, Mississippi Pretreatment Permit No. MSP090300 Rationale (Reissuance) August 24, 2001

I. Facility Information

A. Nature of Business: Wood preservation

B. Regulated Discharge: Process wastewater discharge from the wood preserving operation including

boiler blowdown and contaminated stormwater collected on process areas.

C. Applicable Federal Regulations: Timber Products Processing Point Source Category; Subpart G - Wood Preserving Steam Subcategory - 40 CFR Part 429.85 Pretreatment standards for existing sources (PSES)

II. POTW Information

A. Name: City of Grenada Aerated Multi-Cell Lagoon (MS0020397)

B. Average Design Flowrate: 3.4 MGD

C. POTW Receiving Stream: Yalobusha River

D. POTW Receiving Stream 7Q10 Flowrate: 35.55 MGD (Q_{7/10})

III. Flowrate Data and Loading Conditions:

A. POTW Average Flowrate (QPOTW) from discharge monitoring report (DMR) data.

Month	Flowrate, MGD
Jan 00	1.781
Feb 00	1.825
Mar 00	2.167
Apr 00	2.800
May 00	1.600
Jun 00	1.724
Jul 00	1.300
Aug 00	1.400
Sept 00	1.500
Oct 00	1.356
Nov 00	1.500
Dec 00	1.750
Sum	20.703
	/12
Q _{POTW} =	1.725 MGD

B. Indirect Dischargers Process Flowrate Data (Metal Contributing Industries)

Indirect Discharger	Q _{process} or (Q _I), MGD
Koppers	0.035
Binswanger	0.121
Heatcraft ADP	0.093
Heatcraft North	0.030
Heatcraft South (OEM)	0.030
Pennaco	0.160
Valley Racks	0.0025
Total =	0.472 MGD (Q _T)

C. X_t - Maximum 30 Day Average Value Utilizing DMR data - Year 2000 Data.

Parameter		Heatcraft ADP Outfall 001	Outfall 002		(OEM)		•	Koppers	Xtt Total
	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)
As								0	0.0
Cr	0		*****	0.005	0.045	0.28	0.0005	0	0.3305
Cu	0.85	1.52	0.43	0.478	1.68		0.001	0.0023	4.9613
Ni Ni	0.019	1.52	0.40	0.007	0.015		0.0005		0.0415
•	0.019	0.199	0.005	0.322	2.44		0.001		3.007
Zn		0.133	0.000					0.4263	0.4263
Penta Phenol						0.02		0.0286	0.0486

D. X_{ta} - Current Maximum Permitted Loadings.

Parameter	J	Outfall 001	Outfall 002		Heatcraft South (OEM) (#/day)	Pennaco (#/day)	Valley Racks (#/day)	Koppers (#/day)	Xtat Total (#/day)
	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(muay)		0.131	0.131
As									
Cr	2.079			0.693	0.636	1.6	0.058	1.168	6.234
Cu	2.537	1.4	0.01	0.846	4.6		0.06	0.642	10.095
Ni Ni	2.987			0.996	2.84		0.083		6.906
Zn	1.959	3.73	0.028	0.653	6.32		0.054		12.744
Penta	1.555	0.70					*****	0.105	0.105
Phenol						0.5		1.75	2.25

IV. Background / Domestic Loading Calculations:

 BG_L , #/day = 8.34 ($BG_{C(1)}$, mg/L) (Q_{POTW} -Sum $Q_{Industrial(2)}$, MGD)

 $BG_L(As) = 8.34 (0.0014119) (1.725 - 0.420) = 0.015 \#/day$

 $BG_L(Cu) = 8.34 (0.1450994) (1.725 - 0.420) = 1.58 \#/day$

 $BG_L(Cr) = 8.34 (0.0653852) (1.725 - 0.420) = 0.712 \#/day$

 $BG_L(Ni) = 8.34 (0.021) (1.725 - 0.420) = 0.229 \#/day$

 $BG_L(Zn) = 8.34 (0.175) (1.725 - 0.420) = 1.90 \#/day$

 $BG_L(Penta) = 8.34 (0.0) (1.725 - 0.420) = 0.0 \#/day$

 $BG_L(Phenol) = 8.34 (0.0) (1.725 - 0.420) = 0.0 \#/day$

- (1) BG_C = Background concentration in domestic sewage. See Attachment A for tabulation of values from the City of Grenada Toxicity Study. Values for Nickel and Zinc were taken from Table 3-13 (Typical Domestic Wastewater Levels). Background values for both pentachlorophenol and phenol.
- (2) Sum $Q_W = Q_{W1} + Q_{W2} + Q_{W3} + ... + Q_{Wn}$ where Q_W is the maximum 30 day average from DMR flowrate data for the existing indirect discharger from the last 12 months of monthly DMR data.

V. Water Quality Analysis:

A. $IWC = Q_{POTW} / (Q_{POTW} + Q_{7/10})$

$$IWC = 1.725/(1.725 + 35.55) = 0.04627$$

IWC = 4.63%; therefore, develop an acute and chronic water quality screens.

B. Acute Allowable Water Quality Criteria (AWQC) Headworks Loading Calculations:

AWQC,
$$\#/day = 8.34 (C_{CRITICAL(1)}, mg/L) (Q_{POTW} + Q_{7/10}, MGD) / (1-R_{POTW(2)})$$

$$AWQC (As) = 8.34 (0.360) (1.725 + 35.55) / (1-0.95) = 203.48 \#/day$$

AWQC (Cu) =
$$8.34 (0.00845) (1.725 + 35.55) / (1-0.95) = 55.02 \#/day$$

AWQC (Cr) =
$$8.34 (0.311) (1.725 + 35.55) / (1-0.91) = 1074.24 \#/day$$

AWQC (Ni) =
$$8.34 (0.787) (1.725 + 35.55) / (1-0.56) = 556.04 \#/day$$

AWQC
$$(Zn) = 8.34 (0.0636) (1.725 + 35.55) / (1-0.64) = 54.92 #/day$$

AWQC (Penta) =
$$8.34 (0.00332) (1.725 + 35.55) / (1-0) = 1.03 \#/day$$

AWQC (Phenol) =
$$8.34 (0.300) (1.725 + 35.55) / (1-0) = 93.26 \#/day$$

C. Chronic Allowable Water Quality Criteria (AWQC) Headworks Loading Calculations:

AWQC,
$$\#/day = 8.34 (C_{CRITICAL(1)}, mg/L) (Q_{POTW} + Q_{7/10}, MGD) / (1-R_{POTW(2)})$$

AWQC (As) =
$$8.34 (0.190) (1.725 + 35.55) / (1-0.45) = 107.39 \#/day$$

AWQC (Cu) =
$$8.34 (0.00628) (1.725 + 35.55) / (1-0.95) = 39.05 \#/day$$

AWQC (Cr) =
$$8.34 (0.101) (1.725 + 35.55) / (1-0.91) = 348.87 \#/day$$

AWQC (Ni) =
$$8.34 (0.087) (1.725 + 35.55) / (1-0.56) = 61.47 \#/day$$

AWQC
$$(Zn) = 8.34 (0.0581) (1.725 + 35.55) / (1-0.64) = 6.50 #/day$$

AWQC (Penta) =
$$8.34 (0.0021) (1.725 + 35.55) / (1-0) = 0.653 \#/day$$

AWQC (Phenol) =
$$8.34 (0.102) (1.725 + 35.55) / (1-0) = 31.71 \#/day$$

- (1) State of Mississippi Water Quality Criteria For Intrastate, Interstate and Coastal Waters...Adopted November 16, 1995 (Appendix A). Freshwater acute and chronic values.
- (2) Removal efficiencies developed by OPC from the City of Grenada toxicity data. Attachment A. For Arsenic, no removal efficiency data was available for aerated lagoons. Table 3.10 (Priority Pollutant Removal Efficiencies Through Activated Sludge Treatment) was used. For Nickel, an OPC Study document (Observed Removal Efficiency v Literature Removal Efficiency) was used for a removal efficiency value.

VI. POTW Inhibition Analysis:

A. Allowable Loading at POTW:

$$HWI_L$$
, #/day = 8.34 (Q_{POTW}, MGD) (C_{INHIBITION(1)}, mg/L)

$$HWI_L$$
, (As) = 8.34 (1.725) (0.1) = 1.44 #/day

$$HWI_L$$
, (Cu) = 8.34 (1.725) (1.0) = 14.39 #/day

$$HWI_L$$
, (Cr) = 8.34 (1.725) (1.0) = 14.39 #/day

$$HWI_L$$
, (Ni) = 8.34 (1.725) (1.0) = 14.39 #/day

$$HWI_L$$
, $(Zn) = 8.34 (1.725) (1.0) = 14.39 #/day$

$$HWI_L$$
, (Penta) = 8.34 (1.725) (0.95) = 13.67 #/day

$$HWI_L$$
, (Phenol) = 8.34 (1.725) (50) = 719.33 #/day

(1) Inhibition concentrations from <u>EPA Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program</u> – Table 3-2. Activated Sludge Inhibition Threshold Levels. See Attachment A for table.

VII. Limiting Case Summary:

Parameter	HWIL	Acute	Chronic	LC	Xtt	Xtat	BGL	BGL < LC	V# 410	20.1.1.0
		AWQC	AWQC	If HWI < AWQC	7111	Audi	DGL		Xtt < LC	Xtat < LC
				LC = HWI				(Pass/Fail)	(Pass/Fall)	(Pass/Fail)
				IF AWQC < HWI						
				LC = AWQC						
	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)	(#/day)
As	1.44	203.48	107.39	1.44	0	0.131	0.015	Pass	Pass	Pass
Cr	14.39	1074.2	348.87	14.39	0.3305	6.234	1.58	Pass	Pass	
Cu	14.39	55.02	39.05	14.39	4.959	10.095	0.712	Pass	Pass	Pass
Ni	14.39	556.04	61.47	14.39	0.0415	6.906	0.229	Pass	·	Pass
Zn	14.39	54.92	6.5	6.5	3.007	12.744	1.9	=	Pass	Pass
Penta	13.67	1.03	0.653	0.653	0.4263	0.105		Pass	Pass	Pass
Phenoi	719.33	93.26	31.71				0	Pass	Pass	Pass
	7 10.00	30.20	31.71	31.71	0.0486	2.25	0	Pass	Pass	Pass

VIII. Uniform Concentration Method Based upon Total Industrial Flow for the Development of Allowable Acute and Chronic Concentrations:

The remaining industrial waste load allocation will be used in calculating allowable acute concentrations using the "Concentration Limit Method Based on Industrial Contributory Flow" method as described in the EPA Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program.

EQUATIONS:

$$P_{Al}$$
, #/day = (L_C , #/day - BG_L , #/day) (Q_I , MGD / Q_T , MGD)

 C_{ALLOW} , mg/L = P_{Al} , #/day / (8.34 * Q_{I} , MGD)

Where,

P_{AI} = Permit Allocation for Indirect Discharger

C_{ALLOW} = Allowable Concentration for Indirect Discharger

Q_I = Applicant's Process Discharge

Q_T = Total Indirect Discharger Flow for Metals

 L_C = Limiting Case Loading

BG_L = Background/Domestic Loading

<u>Arsenic</u>

Acute: $P_{Al} = (1.44 - 0.015) * (0.035 / 0.035) = 1.425 \#/day$

 $C_{ALLOW} = 1.425 / (8.34 * 0.035) = 4.88 \text{ mg/L}$

Chronic: $P_{AI} = (1.44 - 0.015) * (0.035 / 0.035) = 1.425 #/day$

 $C_{ALLOW} = 1.425 / (8.34 * 0.035) = 4.88 \text{ mg/L}$

Chromium

Acute: $P_{AI} = (14.39 - 1.58) * (0.035 / 0.379) = 1.183 #/day$

 $C_{ALLOW} = 1.183 / (8.34 * 0.035) = 4.05 \text{ mg/L}$

Chronic: $P_{AI} = (14.39 - 1.58) * (0.035 / 0.379) = 1.183 #/day$

 $C_{ALLOW} = 1.183 / (8.34 * 0.035) = 4.05 \text{ mg/L}$

Copper

Acute: $P_{Al} = (14.39 - 0.712) * (0.035 / 0.312) = 1.534 #/day$

 $C_{ALLOW} = 1.534 / (8.34 * 0.035) = 5.26 \text{ mg/L}$

Chronic: $P_{AI} = (14.39 - 0.712) * (0.035 / 0.312) = 1.534 #/day$

 $C_{ALLOW} = 1.534 / (8.34 * 0.035) = 5.26 \text{ mg/L}$

<u>Nickel</u>

Acute: $P_{AI} = (14.39 - 0.229) * (0.035 / 0.184) = 2.694 \#/day$

 $C_{ALLOW} = 2.694 / (8.34 * 0.035) = 9.23 \text{ mg/L}$

Chronic: $P_{Al} = (14.39 - 0.229) * (0.035 / 0.184) = 2.694 \#/day$

 $C_{ALLOW} = 2.694 / (8.34 * 0.035) = 9.23 \text{ mg/L}$

<u>Zinc</u>

Acute: $P_{AI} = (6.5 - 1.9) * (0.035 / 0.277) = 0.581 #/day$

 $C_{ALLOW} = 0.581 / (8.34 * 0.035) = 1.99 \text{ mg/L}$

Chronic:

 $P_{AI} = (6.5 - 1.9) * (0.035 / 0.277) = 0.581 \#/day$ $C_{ALLOW} = 0.581 / (8.34 * 0.035) = 1.99 mg/L$

Pentachlorophenol

Acute:

 $P_{AI} = (1.03 - 0.0) * (0.035 / 0.035) = 1.03 #/day$

 $C_{ALLOW} = 1.03 / (8.34 * 0.035) = 3.53 \text{ mg/L}$

Chronic:

 $P_{AI} = (0.653 - 0) * (0.035 / 0.035) = 0.653 \#/day$

 $C_{ALLOW} = 0.653 / (8.34 * 0.035) = 2.24 \text{ mg/L}$

<u>Phenol</u>

Acute:

 $P_{AI} = (93.26 - 0.0) * (0.035 / 0.035) = 93.26 \#/day$

 $C_{ALLOW} = 93.26 / (8.34 * 0.035) = 319.5 \text{ mg/L}$

Chronic:

 $P_{AI} = (31.71 - 0.0) * (0.035 / 0.035) = 31.71 #/day$

 $C_{ALLOW} = 31.71 / (8.34 * 0.035) = 108.6 \text{ mg/L}$

IX. SUMMARY OF ALLOWABLE LIMITATIONS AND DECISION PROCESS:

A. Allowable Limitations Table:

Parameter	Allowable Chronic Concentration	Allowable Acute Concentration	Categorical Average Limitation	Categorical Maximum Limitation	Proposed Average Permit	Proposed Maximum
	Cchronic	Cacute	Limitation	Ccat/max	Limitation	Permit Limitation
	Comonic	Ododio		CCatillax	Pavg	Pmax
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Biochemical Oxygen Demand 1/					240	480
Total Suspended Solids 1/					300	600
Oil and Grease 2/				100	Report	100
Arsenic 3/	4.88	4.88		4	Report	0.45
Chromium 4/	4.05	4.05		4	Report	4
Copper <u>4</u> /	5.26	5.26		5	Report	2.2
Nickel 5/	9.23	9.23			Report	Report
Zinc <u>5</u> /	1.99	1.99			Report	Report
Pentachlorophenol <u>6</u> /	2.24	3.53			0.18	0.36
Phenol 6/	108.6	31.71			3	6

^{1/} For Biochemical Oxygen Demand (BOD₅) and Total Suspended Solids (TSS), the proposed limitations will not change from the previously issued permit. Data supplied in the application supports this decision.

^{2/} For Oil and Grease, the proposed limitations are the Categorical Standards from 40 CFR Part 429.

3/ For Arsenic, the proposed limitations will not change from the previously issued permit. DMR data supports this decision.

4/ For Chromium and Copper, the proposed limitations will not change from the previously issued permit. DMR and application data supports this decision.

5/ For Nickel and Zinc, the proposed limitations are based on water quality. The application data submitted only represented one sampling event. Nickel (0.04 mg/l) was reported below the established water quality criteria (acute: 0.787 mg/l, chronic: 0.087 mg/l) while Zinc (1.36 mg/l) was reported above the established water quality criteria (acute: 0.0636 mg/l, chronic: 0.0581 mg/l). Based on these circumstances, both nickel and zinc will be added to the permit; both will be on a "report only" basis.

6/ For Pentachlorophenol and Phenol, the proposed limitations are will not change from the previously issued permit. The limits for both Pentachlorophenol and Phenol are less than the AWQC and HWI.

Note: Flow, pH limits, and sampling frequencies will remain unchanged from the previously issued permit. Sampling frequencies for both Nickel and Zinc will be set at Twice/Year along with other permitted heavy metals.

Attachment A

Raw WET Data from the Grenada POTW

Parameter	units stre	units stream 11/08/1999 11/09/1999 12/06/1999	1/09/1999 1;	2/06/1999 1;	0 12/07/1999 01/04/2000 01/05/2000 02/02/2000 02/07/2000 03/06/2000 03/07/2000 04/18/2000 04/19/2000	1/04/2000 0	1/05/2000 02	702/2000 02	107/2000 03	1/06/2000 03	3/07/2000 04	1/18/2000 04		Removal Eff.
Arsenic (As)	mg/L Inf	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 u	<0.005 use lit values
	Eff	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Cadmium (Cd) mg/L Inf	mg/L Inf	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	<0.020 u	<0.020 use lit values
	Eff	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.020	<0.020	
Chromium (Cr) mg/L Inf) mg/L Inf	<0.050	<0.050	0.19	0.35	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	calc re
	Eff	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Copper (Cu)	mg/L Inf	<0.010	0.07	0.28	0.18	0.51	0.15	0,13	0.09	0.1	90.0	0.05	0.07	calc re
	Eff	0.04	<0.010	<0.010	<0.010	0.01	0.01	0.01	0.01	0.01	0.01	<0.010	<0.010	
Lead (Pb)	mg/L Inf	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050 u	<0.050 use lit values
	Eff	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Mercury (Hg)	mg/L Inf	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 u	<0.0002 use lit values
	Eff	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	ŀ
Nickel (Ni)	mg/L Inf	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.020	<0.020 u	<0.020 use lit values
	Eff	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.020	<0.020	200
Silver (Ag)	mg/L Inf	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.07	<0.050	<0.050	<0.005	<0.005	calc re
	Eff	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.005	<0.005	l
Zinc (Zn)	mg/L Inf	0.12	0.14	0.08	800	0.08	90.0	80'0	0.12	0.15	5	0.05	90'0	calc re
	Eff	0.28	60:0	<0.020	<0.020	<0.020	0.03	<0.020	<0.020	0.02	0.15	<0.025	<0.025	
Cyanide (CN) mg/L Inf	mg/L Inf	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010 u	<0.010 use lit values
	Eff	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	

Data points used in the calculation of the removal efficiencies.

Less than values used in the calculation of the removal efficiencies were divided by 2.

Removal Efficiencies for the Grenada POTW

Parameter	units st	units stream 11/08/1999 11/09/1999 12/06/1999	11/09/1999 1		12/07/1999 01/04/2000 01/05/2000 02/02/2000 02/07/2000 03/06/2000 03/07/2000 04/18/2000 04/19/2000	/04/2000 01	1/05/2000 02	/02/2000 02	/07/2000 03	/06/2000 03	107/2000 04	/18/2000 04		Removal Eff.
Arsenic (As)	mg/L Inf	<0.005	5 <0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	¥.
	Ħ	<0.005	5 <0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Cadmium (Cd) mg/L Inf	mg/L Inf	<0.005	5 <0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	<0.020	¥ Ž
	#	F <0.005	5 <0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.020	<0.020	
Chromium (Cr) mg/L Inf	mg/L Inf	<0.050	050.0>	0.19	0.35	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	91%
	E	f <0.050	050.0> 0	0.025	0.025	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Copper (Cu)	mg/L Inf	<0.010	0.07	0.28	0.18	0.51	0.15	0.13	0.09	•	90'0	0.05	0.07	92%
	Ħ	f 0.04	4 0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.005	
Lead (Pb)	mg/L Inf	f <0.050	0 <0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	¥
	E	f <0.050	0 <0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Mercury (Hg)	mg/L Inf	r <0.0002	2 <0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	¥
	Eff	T <0.0002	2 <0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Nickel (Ni)	mg/L Inf	f <0.040	0 <0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.020	<0.020	¥
	Ħ	T <0.040	0 <0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.020	<0.020	
Silver (Ag)	mg/L inf	f <0.050	0 <0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.07	<0.050	<0.050	<0.005	<0.005	64%
	Eff	f <0.050	0 <0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.025	<0.050	<0.050	<0.005	<0.005	
Zinc (Zn)	mg/L Inf	f 0.12	2 0.14	0,0	90'0	0.08	90 .0	90.0	0.12	0.15	0	0.05	90.0	64%
	E	ff 0.28	8 0.09	0.0	-0.01	0.01	0.03	0.01	0.01	0.02	0.15	0.0125	0.0125	
Cyanide (CN) mg/L Inf	mg/L In	f <0.010	0 <0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	¥ Z
	Eff	ff <0.010	0 <0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	

Data points used in the calculation of the removal efficiencies.
Less than values used in the calculation of the removal efficiencies were divided by 2.

Grenada POTW Sewer Domestic Concentrations

Arsenic (As) mg/L Inf	units stream	11/08/1999 11/09/1999 12/06/	/09/1999 12	/06/1999 12	/07/1999 01	/04/2000 01	/05/2000 02	102/2000 02	1999 12/07/1999 01/04/2000 01/05/2000 02/02/2000 02/07/2000 03/06/2000 03/07/2000 04/18/2000 04/19/2000	/06/2000 03,	/07/2000 04	/18/2000 04	19/2000
	ı,	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
	Eff	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Cadmium (Cd) mg/L Inf	Ē	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.01	0.01
	Eff	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.01	0.01
Chromium (Cr) mg/L Inf	Ĭ <u>.</u>	0.025	0.025	0.19	0.35	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
	Eff	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Copper (Cu) mg/L	ju	0.005	0.07	0.28	0.18	0.51	0.15	0.13	0.09	0.1	90.0	0.05	0.07
	Eff	0.04	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.005
Lead (Pb) mg/l	mg/L Inf	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
	Eff	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Mercury (Hg) mg/l	mg/L Inf	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	Eff	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Nickel (Ni) mg/l	mg/L Inf	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01
	Eff	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01
Silver (Ag) mg/l	mg/L Inf	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.07	0.025	0.025	0.025	0.025
	Eff	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Zinc (Zn) mg/	mg/L Inf	0.12	0.14	0.08	0.08	0.08	0.08	0.08	0.12	0.15	0.1	0.05	90.0
	Eff	0.28	0.09	0.01	0.01	0.01	0.03	0.01	0.01	0.02	0.15	0.0125	0.0125
Cyanide (CN) mg/	mg/L Inf	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	1 5	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

Less than values used in the calculation of the domestic concentrations were divided by 2. (See raw data for identification of original less than values.) Facilities domestic concentrations based on influent POTW domestic concentrations only.

Background Concentration in Domestic Sewage

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Month	Month 11/08/1999 11/09/1999	11/09/1999	12/06/1999 12/07/1999 01/04/2000 01/05/2000 02/02/2000 02/07/2000	12/07/1999	01/04/2000	01/05/2000	02/02/2000	02/07/2000	03/06/2000	03/07/2000 04/18/2000	04/18/2000	04/19/2000
POTW Data Conc Flow Total Load	0.0025 1.592 0.0331932	0.0025 1.592 0.0331932	0.0025 1.743 0.0363416	0.0025 1.743 0.0363416	0.0025 1.781 0.0371339	0.0025 1.781 0.0371339	0.0025 1.825 0.0380513	0.0025 1.825 0.0380513	0.0025 2.167 0.045182	0.0025 2.167 0.045182	0.0025 2.800 0.05838	0.0025 2.800 0.05838
Koppers* Flow Load	0.014086 0	0.014086 0	0.020625 0	0.020625 0	0.019516 0	0.019516 0	0.013334 0	0.013334 0	0.015058 0	0.015058 0	No Data Available	No Data Available
Binswanger Flow Load	¥	¥	Š	Š	Š	Ą	Š	V	Ą.	Š	Ą	¥ V
Heatcraft ADP outfall 001 Fiow	¥ V	¥.	¥	Š	ş	X	ş	Š	ş	Š	Š	V
Heatcraft ADP outfall 002 Flow Load	Ą V	¥	¥	¥	¥	¥	ş	¥	₹	Ą	Š	Š
Heatcraft North Flow Load	₹	¥	Š	Ą	¥	ž	Ą	Ą	Ą	¥	Š Š	Ą Z
Heatcraft South Flow Load	¥ Z	V	ž	¥	¥ Z	N A	¥	A V	¥	¥.	Y Y	Š
Pennaco Flow Load	ş	&	¥ V	¥	ž	¥ V	¥ Z	¥ Y	Y V	¥	¥	Š
Valley Racks Flow Load	Ž	Ą Z	ď Ž	¥	≨	₹	¥	¥	¥ V	Š	¥.	¥

Monthly Domestic Calculations:

Domestic Load, #/d 0.0191072 0.0191072 0.0157166 0.0157166 0.0176179 0.0176179 0.0247173 0.0247173 0.030124 0.030124

Domestic Conc, mg/l 0.0014519 0.0014519 0.0010941 0.0010941 0.0011992 0.0011992 0.0016359 0.0016359 0.0016785 0.0016785

Domestic Average Load, #/d 0.0214566 Domestic Average Conc, mg/l 0.0014119

Copper	Month	11/08/1999	11/09/1999	12/06/1999 12/07/1999	12/07/1999	01/04/2000	01/05/2000	02/02/2000	02/07/2000	03/06/2000	03/07/2000	04/18/2000	04/19/2000
	POTW Data Conc Flow Total Load	0.005 1.592 0.0663864 (0.070 1.592 0.9294096	0.280 1.743 4.0702536	0.180 1.743 2.61 6 5916	0.510 1.781 7.5753054	0.150 1.781 2.228031	0.130 1.825 1.978665	0.090 1.825 1.369845	0.100 2.167 1.807278	0.060 2.167 1.0843668	0.050 2.800 1.1676	0.070 2.800 1.63464
	Koppers* Flow Load	0.014086	0.014086	0.020625	0.020625	0.0348	0.0348	0.0314	0.0314	0.0298	0.0298	Flow Data Flow Data Unavallable Unavailable	Flow Data Jnavailable
	Binswanger Flow Load	0.080	0.080	0.080	0.080	0.080	0.080	0.070	0.070	0.070	0.070	0.070	0.070
	Heatcraft ADP outfall 001 Flow Load	0.023	0.023	0.01296 0.076	0.01296 0.076	0.032	0.032	0.044	0.044 1.52	0.0418	0.0418	0.036 0.515	0.036 0.515
	Heatcraft ADP™ outfall 002 Flow Load	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	0.0003	0.0003	No Discharge No Discharge	No Discharge
	Heatcraft North Flow*** Load	0.0273	0.0273 0.169	0.0235 0.135	0.0235 0.135	0.028 0.169	0.028 0.169	0.0297 0.137	0.0297 0.137	0.03	0.03	0.0298 0.196	0.0298 0.196
	Heatcraft South Flow*** Load	0.208	0.208	0.156 0.26	0.156 0.26	0.201	0.201	0.2049	0.2049	0.196 0.17	0.196	0.2048	0.2048 0.15
	Pennaco Flow Load	Š	¥.	¥	¥	¥.	¥ V	ş	& Z	K	¥	ď	ž
	Valley Racks Flow Load	No Data Avallable	No Data Available	No Data Avallable	No Data Avallable	0.0011	0.0011 0.001	0.0011	0.001	No Discharge	No Discharge	0.001	0.0011
Monthly Domes	Monthly Domestic Calculations: Domestic Load, #/d Domestic Conc, mg/l	-0.468 -0.0452318	0.395 0.0382458	3.368 0.2785447	1.915 0.1583308	6.439 0.5498497	1.092 0.0932481	-0.580	-1.189 0.040 -0.683 -0.0887428 0.0026839 -0.0454877	0.0026839	-0.683	0.176	0.643 0.0313309

Domestic Average Load, #/d 1.759
Domestic Average Conc, mg/l 0.1450994

Background Concentration in Domestic Sewage

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Flow Total Load 1.592 0.331932 1.582 0.331932 1.743 0.331932 1.743 0.087978 1.743 0.087978 1.743 0.08797 1.743 0.0879 1.743 0.0879 1.743 0.08797 1.743 0.0879 1.743 0.0909 1.743 0.0909 1.743 0.0909 1.743 0.0904 1.756 0.0904 1.
ers vanger* 0.000 0.000 0.000 raft ADP 11 001 NA NA NA NA NA NA NA NA NA NA
No Data No Data No Data No Data Available Available
ADP NA
ADP NA
aft North 0.0273 0.0273 0.0273 0.0273 0.0235 0.0045 0.0045 0.0045 0.0045 0.0045 0.0054 0.005 0.0064 0.006 0.0064 0.008 0.0064 0.008 0.008 0.0084 0.008 0.0084 0
aft South 0.208 0.035 0.035 0.035 0.035 0.035 0.046 0.046 0.046 0.08 0.08 0.18 Racks*** No Data No Data No Data Available Available Available Available
0.046 0.046 0.064 0.08 0.08 0.18 No Data No Data No Data Available Available
No Data No Data No Data Available Available

Domestic Average Load, #/d 0.848 Domestic Average Conc, mg/l 0.0653852

^{*} Twice per year frequency
**Maximum flow reported only
*** 1-6/00 7-12/00 reported as NOBi

TABLE 3-13. TYPICAL DOMESTIC WASTEWATER LEVELS*

Pollutant	Concentration, mg/l
Cadmium	0.003
Chromium	0.05
Copper	0.061
Lead	0.049
Nickel	0.021
Zinc	0.175
Arsenic	0.003
Mercury	0.0003
Silver	0.005
Cyanide	0.041

^{*}From "Assessment of the Impacts of Industrial Discharges on Publicly Owned Treatment Works, Appendices," prepared by JRB Associates for the U.S. Environmental Protection Agency, November 1981, p. C-38.

TABLE 3-10. PRIORITY POLLUTANT REMOVAL EFFICIENCIES THROUGH ACTIVATED SLUDGE TREATMENT*

Metals/Nonmetal Inorganics**	Range	Second Decile	Median	Eighth Decile	No. of POTWs with Removal Da
Cadmium	25-99	33	67	91	19 of 26
Chromium	25-97	68	82	91	25 of 26
Copper	2-99	67	86	95	26 of 26
Lead	1-92	39	61	76	23 of 26
Nickel	2-99	25	42	62	23 of 26
Zinc	23-99	64	79	88	26 of 26
Arsenic	11-78	31	45	53	5 of 26
Mercury	1-95	50	60	79	20 of 26
Selenium	25-89	33	50	67	4 of 26
Silver	17-95	50	75	88	24 of 26
Cyanide	3-99	41	69	84	25 of 26
5					
Organics**					
Benzene	25-99	50	80	96	18 of 26
Chloroform	17-99	50	67	83	24 of 26
1,2-trans-Dichloroethylene	17-99	50	67	91	17 of 26
Ethylbenzene	25-99	67	86	97	25 of 26
Methylene chloride	2-99	36	62	77	26 of 26
Tetrachloroethylene	15-99	50	80	93	26 of 26
Toluene	25-99	80	93	98	26 of 26
1,1,1-Trichloroethane	18-99	75	85	94	23 of 26
Trichloroethylene	20–99	75	89	98	25 of 26
Anthracene	29-99	44	67	91	5 of 26
Bis (2-ethylhexyl) phthalate	17-99	47	72	87	25 of 26
Butyl benzyl phthalate	25-99	50	67	92	16 of 26
Di-n-butyl phthalate	11-97	39	64	87	19 of 26
Diethyl phthalate	17-98	39	62	90	15 of 26
Napthalene	25-98	40	78	90	16 of 26
Phenanthrene	29-99	37	68	86	6 of 26
Phenol	3-99	75	90	98	19 of 26
Pyrene	73–95	76	²⁶ 86	95	2 of 26

^{*}Pollutant removals between POTW influent and secondary effluent (including secondary clarification). Based on a computer analysis of POTW removal efficiency data, (derived from actual POTW influent and effluent sampling data) provided in Fate of Priority Pollutants in Publicly Owned Treatment Works, Volume II, (EPA 440/1-82/303), U.S. Environmental Protection Agency, Washington, D.C., September 1982.

^{**}For the purpose of deriving removal efficiencies, effluent levels reported as below detection were set equal to the reported detection limits. All secondary activated sludge treatment plants sampled as part of the study were considered.