Tronox LLC, Columbus

General Information

ID	Branch	SIC	County	Basin	Start	End
1696	Chemical	2491	Lowndes	Tombigbee River	10/27/1992	

Address

Physical Address (Primary)	Mailing Address
2300 14th Avenue North Columbus, MS 39701	PO Box 268859 Oklahoma City, OK 731268859

Telecommunications

Type	Address or Phone
Work phone number	(405) 775-5129

Alternate / Historic AI Identifiers

Alt ID	Alt Name	Alt Type	Start Date	End Date
2808700020	Tronox LLC, Columbus	Air-AIRS AFS	10/12/2000	06/01/2002
168000020	Kerr McGee Chemical Corporation, Columbus	Air-Construction	06/12/1998	
168000020	Kerr McGee Chemical Corporation, Columbus	Air-Synthetic Minor Operating	06/06/1997	06/01/2002
168000020	Kerr McGee Chemical Corporation, Columbus	Air-Synthetic Minor Operating	06/12/1998	06/01/2002
MSR220010	Kerr McGee Chemical Corporation, Columbus	GP-Wood Treating	10/27/1992	07/13/1997
MSD990866329	Kerr McGee Chemical Corporation, Columbus	Hazardous Waste-EPA ID	10/12/2000	
MSD990866329	Kerr McGee Chemical Corporation, Columbus	Hazardous Waste-TSD	06/11/2001	04/12/2006
MSD990866329	Tronox LLC, Columbus	Hazardous Waste-TSD	04/13/2006	05/31/2011
1696	Kerr McGee Chemical Corporation	Historic Site Name	10/27/1992	04/10/2006
1696	Tronox, LLC	Official Site Name	04/10/2006	
MSP090021	Kerr McGee Chemical Corporation, Columbus	Water-Pretreatment	10/11/1994	10/10/1999
MSP090021	Kerr McGee Chemical Corporation, Columbus	Water-Pretreatment	08/23/2000	07/31/2005
MSP090021	Kerr McGee Chemical Corporation, Columbus	Water-Pretreatment	10/31/2005	04/12/2006
MSP090021	Tronox LLC, Columbus	Water-Pretreatment	04/13/2006	09/30/2010

Regulatory Programs

Program	SubProgram	Start Date	End Date
Air	NSPS Subpart Dc	09/12/1990	06/01/2002
Air	SM	06/06/1997	06/01/2002
Hazardous Waste	Large Quantity Generator	04/01/1997	
Hazardous Waste	TSD - Not Classified	06/11/2001	
Water	PT CIU	10/11/1994	09/01/2003
Water	PT CIU - Timber Products	10/11/1994	09/01/2003

	Processing (Subpart 429)		
Water	PT NCS	09/01/2003	
Water	PT SIU	10/11/1994	

Locational Data

Latitude	Longitude	Metadata	S / T / R	Map Links
33 ° 30 ' 38 .51 (033.510697)	88 ° 24 ' 34 .02 (088.409450)	**Point Desc:** PG - Plant entrance (General) Data collected by Louis Crawford on 7/11/00. PG - Plant Entrance (General) Data collected by Clift Jeter on 6/13/02. LAT 33deg 30min 36.6sec LON 88deg 24min 35.1sec **Method:** GPS Code (Psuedo Range) Differential **Datum:** NAD83 **Type:** MDEQ	Section: Township: Range:	SWIMS TerraServer Map It

10/13/2006 10:29:50 AM

Mississippi Department of Environmental Quality
Office of Pollution Control

I-sys 2000 Master Site Detail Report

Site Name: Kerr McGee Chemical Corporation, Columbus

PHYSICAL ADDRESS	
LINE 1:	2300 14th Avenue and 20th Street
LINE 2:	
LINE 3:	
MUNICIPALITY:	Columbus
STATE CODE:	MS
ZIP CODE:	39703-

MAILING ADDRESS	
LINE 1:	2300 Fourteenth Avenue North
LINE 2:	
LINE 3:	
MUNICIPALITY:	Columbus
STATE CODE:	MS
ZIP CODE:	39701-

OTHER INFORMATION	
MASTER ID:	001696
COUNTY:	Lowndes
REGION	NRO
SIC 1:	2491
AIR TYPE:	SYNTHETIC MINOR
HW TYPE:	TSD
SOLID TYPE:	
WATER TYPE:	INDUSTRIAL
BRANCH:	Chemical Branch
ECED CONTACT:	
,	
BASIN:	
Tombigbee River Basin	

AIR PROGRAMS	☐ SIP	☐ PSD	☑ NSPS	☐ NESHAPS	☐ MACT

Mississippi Department of Environmental Quality
Office of Pollution Control

Pemits

PROGRAM	PERMIT TYPE	PERMIT #	MDEQ PERMIT CONTACT	ACTIVE
AIR	SMOP	168000020	Hall, Bobby	NO
AIR	SMOP	168000020	Shanks, Brad	YES
WATER	PRE-TREATMENT	MSP090021	Brumfield, Milton	YES
HAZ. WASTE	EPA ID	MSD990866329	Ferguson, Bruce	NO
GENERAL	WOOD TREATING	MSR22010	LaFleur, Kenny	YES
HAZ. WASTE	TSD		Ferguson, Bruce	YES
WATER	PRE-TREATMENT	MSP090021	Taylor, John	YES
AIR	CONSTRUCTION	168000020	Shanks, Brad	YES
HAZ. WASTE	TSD	MSD990866329	Crawford, Louis	NO

Compliance Actions

MEDIA	ACTIVITY TYPE	SCHEDULED	COMPLETED	INSPECTED B
HAZ WASTE	Compliance (Groundware) Monitori	5/17/00	5/17/00	Twitty, Russ
HAZ WASTE	Financial Record Review	3/1/00	5/11/00	Hamil, Larry
WATER	CMI - PRETREATMENT			Whittington, Darryail
WATER	CEI - PRETREATMENT	9/30/00		Shelton, Kirk
WATER	CEI - NA	6/16/99	6/16/99	Shelton, Kirk
HAZ WASTE	Compliance Evaluation Inspection	6/16/99	6/16/99	Shelton, Kirk
AIR	State Compliance Inspection	6/16/99	6/16/99	Shelton, Kirk

Enforcement Actions

MEDIA	ENFORCEMENT STEP	DETERMINED	RESOLVED	EMPLOYEE ASSIGNE
HAZ. WASTE	AGREED ORDER	6/16/99	5/18/00	Hamil, Larry
HAZ. WASTE	APPARENT VIOLATION	6/16/99	5/18/00	Hamil, Larry
AIR	APPARENT VIOLATION	6/16/99	5/18/00	Hamil, Larry
AIR	AGREED ORDER	6/16/99	5/18/00	Hamil, Larry

entered into I-SIP. 2-8-99 mm.

Add a New Site

Site Name: Kerr McGee Chemical Corporation

Official / Legal Name:

Air Type: Synthetic Minor **Water Type:** Industrial

HW Type: LQG **SW Type:**

Site General Information

County: Lowndes

Contact Name: Mr. Murphy, Ron

Contact Title: Plant Manager

Contact Phone: 328-7551

Physical Address City, State, Zip: 2300 14th Ave and 20th St, Columbus MS 39703

Mailing Address City, State, Zip: PO Box 906, Columbus MS 39703

Owner's Name:

Owner's Address City, State, Zip:

Operator or Contractor Name:

Address City, State, Zip:

Site Identification Information

ECED Contact: Kirk Shelton

SIC1: 2491 **SIC2:** **SIC3:**

Air ID: 00020 5 digit ID assigned by Air Divisio

Dunn and Bradstreet Number:

Site Basin

Tombigbee River Basin

Air Detail

Air Programs

■ SIP ■ PSD ■ NSPS ■ NESHAPS ■ MACT

MDEQ OPC Locational Data Entry Form

11501-MD

Page 1 of 32

Site Name Kerr-McGee

Address: 2300 - 14th Avenue North MSP0900021
City: Columbus State: MS Zip: 39701
County: Lowndes

Site Unique Identifier: Front Door To Office
Site Unique Identifier Description: South Gate
(Permit#, EPA ID, Monitoring Station #, etc…)

Latitude: ~~33~~ 33 Degrees ~~30~~ 30 Minutes ~~38.51~~ 15.56 Seconds

Longitude: ~~88~~ 88 Degrees ~~24~~ 29 Minutes ~~34 02~~ 02.30 Seconds

Elevation: ~~236~~ ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

1696

Point Description: X PG - Plant Entrance (General)
___ NE - NE Corner of Land Parcel
___ SE - SE Corner of Land Parcel
___ NW - NW Corner of Land Parcel
___ SW - SE Corner of Land Parcel
___ CE - Center of Facility
___ WL - Well*
___ WM - Ambient Water Mon. Station
___ AM - Ambient Air Mon. Station

Comments: _____

*This point should be used only for wells in cases where there is no other identifiable facility.

Collected By: [signature] Date Collected: 11 JUL00

Locational Data Entry Form Supplement

Page 2 of 32

Site Name: KERR-McGEE

Point Unique Identifier: ~~RCRA~~ Closed surface impoundments

Point Unique Identifier Description: ~~RCRA~~ RU

(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 34.53 Seconds

Longitude: ~~98~~ Degrees 24 Minutes 36.49 Seconds

Elevation: 187 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
X SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
___ WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11 JUL 02

Locational Data Entry Form Supplement

Page 3 of 32

Site Name: KERR McGEE

Point Unique Identifier: CME-3

Point Unique Identifier Description: Monitoring Well (RCRA-GW)
(Stack #, Discharge #, Monitoring Station #, etc…)

Latitude: 33 Degrees 30 Minutes 35.14 Seconds

Longitude: 88 Degrees 24 Minutes 36.19 Seconds

Elevation: 143 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11 JUL 00

Locational Data Entry Form Supplement

Page 4 of 32

Site Name: KERR-McGEE

Point Unique Identifier: CME-5

Point Unique Identifier Description: RCRA GW Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 28.69 Seconds

Longitude: 466 Degrees 24 Minutes 14.29 Seconds

Elevation: 706 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11 JUL 00

Locational Data Entry Form Supplement
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Site Name: KERR-McGEE

Point Unique Identifier: CME-6
Point Unique Identifier Description: RCRA GW Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc…)

Latitude: 33 Degrees 30 Minutes 30.30 Seconds

Longitude: 88 Degrees 24 Minutes 25.46 Seconds

Elevation: ___ ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11 JUL 00

Locational Data Entry Form Supplement

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Site Name: ~~CME-7~~ KERR-McGEE

Point Unique Identifier: CME-7

Point Unique Identifier Description: RCRA GW Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc…)

Latitude: 33 Degrees 30 Minutes 30.69 Seconds

Longitude: 88 Degrees 24 Minutes 19.30 Seconds

Elevation: 190 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11 JUL 00

Locational Data Entry Form Supplement
Page 7 of 32

Site Name: Kerr-McGee

Point Unique Identifier: CME-8
Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 26.71 Seconds

Longitude: 86 Degrees 24 Minutes 30.12 Seconds

Elevation: 160 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: [signature] Date Collected: 11JUL00

Locational Data Entry Form Supplement
Page 8 of 32

Site Name: KERR McGEE

Point Unique Identifier: CMW 1AR
Point Unique Identifier Description: RCRA GW Monitoring well
(Stack #, Discharge #, Monitoring Station #, etc…)

Latitude: 33 Degrees 30 Minutes 38 .52 Seconds

Longitude: 88 Degrees 24 Minutes 29 .79 Seconds

Elevation: 144 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: [signature] Date Collected: 11JUL00

Locational Data Entry Form Supplement

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Site Name: KERR-McGEE

Point Unique Identifier: CMW 3

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 34.42 Seconds

Longitude: 88 Degrees 24 Minutes 31.92 Seconds

Elevation: 190 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: [signature]

Date Collected: 11 JUL 00

Locational Data Entry Form Supplement

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Site Name: KERR-McGEE

Point Unique Identifier: CMW 6

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc…)

Latitude: ~~33~~ 33 Degrees ~~30~~ 30 Minutes ~~35.23~~ 36 06 Seconds

Longitude: ~~88~~ Degrees 24 Minutes 32 .36 Seconds

Elevation: 177ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: [signature] Date Collected: 11 JUL 02

Locational Data Entry Form Supplement

Site Name: KERR-McGEE

Point Unique Identifier: CMW 7

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 35.23 Seconds

Longitude: 88 Degrees 24 Minutes 33.22 Seconds

Elevation: 167 ft.

Method of Collection:
- X G3 - Differential (± 3m)
- ___ G6 - Autonomous (± 100m)

Point Description:
- ___ PP - Plant Entrance (Personnel)
- ___ PF - Plant Entrance (Freight)
- ___ AS - Air Release Stack
- ___ AV - Air Release Vent
- ___ ST - Storage Vent
- ___ WR - Water Release Pipe
- ___ SP - Lagoon or Settling Pond
- ___ LW - Liquid Waste Treatment Unit
- ___ AE - Atmos. Emissions Trtmnt/Disp
- ___ SD - Solid Waste Tretmt/Disp Unit
- ___ SS - Solid Waste Storage Area
- ___ LF - Loading Facility
- ___ PU - Process Unit
- X WL - Well
- ___ WM - Water Monitoring Station
- ___ AM - Air Monitoring Station
- ___ OT - Other (Describe in Comments)
- ___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11 JUL 00

Locational Data Entry Form Supplement

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Site Name: KERR-McGEE

Point Unique Identifier: CMW 8

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 34.53 Seconds

Longitude: 88 Degrees 24 Minutes 33.93 Seconds

Elevation: 164 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: [signature] Date Collected: 11 JUL 00

Locational Data Entry Form Supplement

Site Name: KERR-McGEE

Point Unique Identifier: CMW 11

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc…)

Latitude: 33 Degrees 30 Minutes 30.12 Seconds

Longitude: 88 Degrees 24 Minutes 27.62 Seconds

Elevation: ___ft.

Method of Collection: X G3 – Differential (± 3m)
___ G6 – Autonomous (± 100m)

Point Description:
___ PP – Plant Entrance (Personnel)
___ PF – Plant Entrance (Freight)
___ AS – Air Release Stack
___ AV – Air Release Vent
___ ST – Storage Vent
___ WR – Water Release Pipe
___ SP – Lagoon or Settling Pond
___ LW – Liquid Waste Treatment Unit
___ AE – Atmos. Emissions Trtmnt/Disp
___ SD – Solid Waste Tretmt/Disp Unit
___ SS – Solid Waste Storage Area
___ LF – Loading Facility
___ PU – Process Unit
X WL – Well
___ WM – Water Monitoring Station
___ AM – Air Monitoring Station
___ OT – Other (Describe in Comments)
___ UN – Unknown

Comments: _____

Collected By: _____ Date Collected: 11 JUL 00

Locational Data Entry Form Supplement

Site Name: KERR-McGEE

Point Unique Identifier: CMW 14

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 34.46 Seconds

Longitude: 88 Degrees 24 Minutes 29.95 Seconds

Elevation: 157ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11JUL00

Locational Data Entry Form Supplement
Page 15 of 32

Site Name: KERR-McGEE

Point Unique Identifier: CMW 16
Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 35.06 Seconds

Longitude: 88 Degrees 24 Minutes 36.45 Seconds

Elevation: 160 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11 JUL 00

Locational Data Entry Form Supplement

Site Name: KERR-McGEE

Point Unique Identifier: CMW 19

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 33.26 Seconds

Longitude: 88 Degrees 24 Minutes 25.60 Seconds

Elevation: 190 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11 JUL 00

Locational Data Entry Form Supplement

Page 17 of 32

Site Name: KERR-McGEE

Point Unique Identifier: CMW 24

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 28.48 Seconds

Longitude: 88 Degrees 24 Minutes 14.37 Seconds

Elevation: 170 ft.

Method of Collection: ✓ G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: [signature] Date Collected: 11 JUL 00

Locational Data Entry Form Supplement

Site Name: KERR-McGEE

Point Unique Identifier: CMW26

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 30.57 Seconds

Longitude: 88 Degrees 24 Minutes 37.80 Seconds

Elevation: 170 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11JUL02

Locational Data Entry Form Supplement

Site Name: KERR-McGEE

Point Unique Identifier: CMW 27

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 35.22 Seconds

Longitude: 88 Degrees 22 Minutes 16.83 Seconds

Elevation: 170 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11JUL00

Locational Data Entry Form Supplement

Page 20 of 32

Site Name: KERR-McGEE

Point Unique Identifier: CMW 28

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 35.17 Seconds

Longitude: 96 Degrees 24 Minutes 14.95 Seconds

Elevation: 780 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: [signature] Date Collected: 11JUL00

Locational Data Entry Form Supplement

Site Name: KERR-McGEE

Point Unique Identifier: CMW 29

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 27.67 Seconds

Longitude: 88 Degrees 24 Minutes 15.68 Seconds

Elevation: 181 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11JUL00

Locational Data Entry Form Supplement

Site Name: KERR-McGEE

Point Unique Identifier: CMW 30

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 27.17 Seconds

Longitude: 88 Degrees 24 Minutes 16.06 Seconds

Elevation: 77 ft.

Method of Collection: ___G3 - Differential (± 3m)
___G6 - Autonomous (± 100m)

Point Description:
___PP - Plant Entrance (Personnel)
___PF - Plant Entrance (Freight)
___AS - Air Release Stack
___AV - Air Release Vent
___ST - Storage Vent
___WR - Water Release Pipe
___SP - Lagoon or Settling Pond
___LW - Liquid Waste Treatment Unit
___AE - Atmos. Emissions Trtmnt/Disp
___SD - Solid Waste Tretmt/Disp Unit
___SS - Solid Waste Storage Area
___LF - Loading Facility
___PU - Process Unit
X WL - Well
___WM - Water Monitoring Station
___AM - Air Monitoring Station
___OT - Other (Describe in Comments)
___UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11/21/00

Locational Data Entry Form Supplement
Page 23 of 32

Site Name: KERR-McGEE

Point Unique Identifier: CMW 51
Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: ___Degrees ___Minutes ___.___Seconds

Longitude: ___Degrees ___Minutes ___.___Seconds

Elevation: ___ft.

Method of Collection: ___G3 - Differential (± 3m)
___G6 - Autonomous (± 100m)

Point Description:
___PP - Plant Entrance (Personnel)
___PF - Plant Entrance (Freight)
___AS - Air Release Stack
___AV - Air Release Vent
___ST - Storage Vent
___WR - Water Release Pipe
___SP - Lagoon or Settling Pond
___LW - Liquid Waste Treatment Unit
___AE - Atmos. Emissions Trtmnt/Disp
___SD - Solid Waste Tretmt/Disp Unit
___SS - Solid Waste Storage Area
___LF - Loading Facility
___PU - Process Unit
X WL - Well
___WM - Water Monitoring Station
___AM - Air Monitoring Station
___OT - Other (Describe in Comments)
___UN - Unknown

Comments: Well temporarily inaccessible

Collected By: [signature]

Date Collected: 11/30/02

Locational Data Entry Form Supplement

Page 24 of 32

Site Name: KERR-McGEE

Point Unique Identifier: CMW 56

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc…)

Latitude: 33 Degrees 30 Minutes 26.39 Seconds

Longitude: 88 Degrees 24 Minutes 34.94 Seconds

Elevation: 487 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11 JUL 00

Locational Data Entry Form Supplement

Site Name: KERR-McGEE

Point Unique Identifier: CMW 57

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: ___Degrees ___Minutes ___.___Seconds

Longitude: ___Degrees ___Minutes ___.___Seconds

Elevation: ___ft.

Method of Collection: ___G3 - Differential (± 3m)
___G6 - Autonomous (± 100m)

Point Description:
___PP - Plant Entrance (Personnel)
___PF - Plant Entrance (Freight)
___AS - Air Release Stack
___AV - Air Release Vent
___ST - Storage Vent
___WR - Water Release Pipe
___SP - Lagoon or Settling Pond
___LW - Liquid Waste Treatment Unit
___AE - Atmos. Emissions Trtmnt/Disp
___SD - Solid Waste Tretmt/Disp Unit
___SS - Solid Waste Storage Area
___LF - Loading Facility
___PU - Process Unit
_X_WL - Well
___WM - Water Monitoring Station
___AM - Air Monitoring Station
___OT - Other (Describe in Comments)
___UN - Unknown

Comments: Well temporarily inaccessible

Collected By: [signature]

Date Collected: 11/2000

Locational Data Entry Form Supplement
Page 26 of 32

Site Name: KERR-McGEE

Point Unique Identifier: CMW 60
Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 28.97 Seconds

Longitude: 88 Degrees 24 Minutes 12.18 Seconds

Elevation: 167 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: [signature] Date Collected: 11/5/02

Locational Data Entry Form Supplement

Site Name: KERR-McGEE

Point Unique Identifier: CMW 61

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 27.54 Seconds

Longitude: 88 Degrees 24 Minutes 12.26 Seconds

Elevation: 177 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 1/12/00

Locational Data Entry Form Supplement

Site Name: KERR-McGEE

Point Unique Identifier: CMW 65

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: ___Degrees ___Minutes ___.___Seconds

Longitude: ___Degrees ___Minutes ___.___Seconds

Elevation: ___ft.

Method of Collection: ___G3 - Differential (± 3m)
___G6 - Autonomous (± 100m)

Point Description:
___PP - Plant Entrance (Personnel)
___PF - Plant Entrance (Freight)
___AS - Air Release Stack
___AV - Air Release Vent
___ST - Storage Vent
___WR - Water Release Pipe
___SP - Lagoon or Settling Pond
___LW - Liquid Waste Treatment Unit
___AE - Atmos. Emissions Trtmnt/Disp
___SD - Solid Waste Tretmt/Disp Unit
___SS - Solid Waste Storage Area
___LF - Loading Facility
___PU - Process Unit
X WL - Well
___WM - Water Monitoring Station
___AM - Air Monitoring Station
___OT - Other (Describe in Comments)
___UN - Unknown

Comments: Well temporarily inaccessible

Collected By: [signature]

Date Collected: 1/31/00

Locational Data Entry Form Supplement

Site Name: KERR-McGEE

Point Unique Identifier: CMW 66

Point Unique Identifier Description: RCRA Monitoring Well
(Stack #, Discharge #, Monitoring Station #, etc...)

Latitude: 33 Degrees 30 Minutes 26.36 Seconds

Longitude: 88 Degrees 24 Minutes 37.05 Seconds

Elevation: 177 ft.

Method of Collection: X G3 - Differential (± 3m)
___ G6 - Autonomous (± 100m)

Point Description:
___ PP - Plant Entrance (Personnel)
___ PF - Plant Entrance (Freight)
___ AS - Air Release Stack
___ AV - Air Release Vent
___ ST - Storage Vent
___ WR - Water Release Pipe
___ SP - Lagoon or Settling Pond
___ LW - Liquid Waste Treatment Unit
___ AE - Atmos. Emissions Trtmnt/Disp
___ SD - Solid Waste Tretmt/Disp Unit
___ SS - Solid Waste Storage Area
___ LF - Loading Facility
___ PU - Process Unit
X WL - Well
___ WM - Water Monitoring Station
___ AM - Air Monitoring Station
___ OT - Other (Describe in Comments)
___ UN - Unknown

Comments: _____

Collected By: _____ Date Collected: 11JUL02

Locational Data Entry Form Supplement

Site Name: Kerr McGee

Point Unique Identifier: Trench 1A & 1B

Point Unique Identifier Description: _____
(Stack #, Discharge #, Monitoring Station #, etc…)

Latitude: 33 Degrees 30 Minutes 27.64 Seconds

Longitude: ~~86~~ Degrees 24 Minutes 31.62 Seconds

Elevation: 174 ft.

Method of Collection:
- X G3 – Differential (± 3m)
- ___ G6 – Autonomous (± 100m)

Point Description:
- ___ PP – Plant Entrance (Personnel)
- ___ PF – Plant Entrance (Freight)
- ___ AS – Air Release Stack
- ___ AV – Air Release Vent
- ___ ST – Storage Vent
- ___ WR – Water Release Pipe
- ___ SP – Lagoon or Settling Pond
- ___ LW – Liquid Waste Treatment Unit
- ___ AE – Atmos. Emissions Trtmnt/Disp
- ___ SD – Solid Waste Tretmt/Disp Unit
- ___ SS – Solid Waste Storage Area
- ___ LF – Loading Facility
- ___ PU – Process Unit
- ___ WL – Well
- ___ WM – Water Monitoring Station
- ___ AM – Air Monitoring Station
- X OT – Other (Describe in Comments)
- ___ UN – Unknown

Comments: Corrective Action recovery trench – location taken at approximate intersection of Trenches 1A & 1B

Collected By: [signature]

Date Collected: 11/2000

Locational Data Entry Form Supplement

Site Name: KERR McGEE

Point Unique Identifier: TRENCH 2

Point Unique Identifier Description: _____
(Stack #, Discharge #, Monitoring Station #, etc…)

Latitude: 33 Degrees 30 Minutes ~~28~~ 30 . ~~81~~ 70 Seconds

Longitude: 86 Degrees 24 Minutes ~~44~~ 17 . ~~66~~ 26 Seconds

Elevation: 173 ft.

Method of Collection: X G3 – Differential (± 3m)
___ G6 – Autonomous (± 100m)

Point Description:
___ PP – Plant Entrance (Personnel)
___ PF – Plant Entrance (Freight)
___ AS – Air Release Stack
___ AV – Air Release Vent
___ ST – Storage Vent
___ WR – Water Release Pipe
___ SP – Lagoon or Settling Pond
___ LW – Liquid Waste Treatment Unit
___ AE – Atmos. Emissions Trtmnt/Disp
___ SD – Solid Waste Tretmt/Disp Unit
___ SS – Solid Waste Storage Area
___ LF – Loading Facility
___ PU – Process Unit
___ WL – Well
___ WM – Water Monitoring Station
___ AM – Air Monitoring Station
X OT – Other (Describe in Comments)
___ UN – Unknown

Comments: Corrective action recovery trench - South end

Collected By: _____ Date Collected: 11/1/00

tional Data Entry Form Supplement

ge 32 of 32

Site Name: Ken - Mc Gee

Point Unique Identifier: DRIP PAD

Point Unique Identifier Description: RCRA RU (Generator Status)
(Stack #, Discharge #, Monitoring Station #, etc…)

Latitude: ___Degrees ___Minutes ___.___Seconds

Longitude: ___Degrees ___Minutes ___.___Seconds

Elevation: ___ft.

Method of Collection: ___G3 - Differential (± 3m)
___G6 - Autonomous (± 100m)

Point Description:
___PP - Plant Entrance (Personnel)
___PF - Plant Entrance (Freight)
___AS - Air Release Stack
___AV - Air Release Vent
___ST - Storage Vent
___WR - Water Release Pipe
___SP - Lagoon or Settling Pond
___LW - Liquid Waste Treatment Unit
___AE - Atmos. Emissions Trtmnt/Disp
___SD - Solid Waste Tretmt/Disp Unit
___SS - Solid Waste Storage Area
___LF - Loading Facility
_X_PU - Process Unit
___WL - Well
___WM - Water Monitoring Station
___AM - Air Monitoring Station
___OT - Other (Describe in Comments)
___UN - Unknown

Comments: Missed

Collected By: _____ Date Collected: _____

THIS FILE IS CLOSED

THE MATERIAL ENCLOSED IN THIS FILE BEGINS ON:

DATE : 1999

AND ENDS ON:

DATE : 2000

THERE IS MORE RECENT INFORMATION IN THE NEXT FILE ON THIS SITE

Table No. 2-3

KMCC-FPD Facility - Columbus, MS
Month/Year - Dec-01

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	20,156					
2	20,155					
3	28,969					
4	27,892					6.90
5	30,125					
6	32,101					
7	25,698					
8	24,115					
9	24,500					
10	25,693					
11	24,781					
12	29,922	7.00		11.25	2.80	6.60
13	20,412					
14	28,754					
15	26,002					
16	25,487					
17	25,487					
18	31,025					
19	24,520					6.70
20	24,587					
21	27,509					
22	20,330					
23	20,330					
24	18,520					
25	18,520					
26	20,115	8.00		2.10	0.35	6.80
27	21,063					
28	19,056					
29	19,255					
30	19,255					
31	18,550					
Avg.	**23,964**	**7.50**		**6.68**	**1.57**	**6.75**
Max.	**32,101**	**8.00**		**11.25**	**2.80**	**6.90**
Min.	**18,520**	**7.00**		**2.10**	**0.35**	**6.60**

Date	Flow	Chromiun		Copper		Arsenic		Pentachlorophenol	
	Gallons	mg/l	LBS/DY	mg/l	LBS/DY	mg/l	LBS/DY	mg/l	LBS/DY
03/26/2001	38990		0		0		0	Non-detect	Non-detect
06/29/2001	24512	Non-detect	Non-detect	Non-detect	Non-detect	0.0145	0.00295	Non-detect	Non-detect
09/28/2001	30115	Non-detect	Non-detect	0.0156	0.00390115	Non-detect	Non-detect	0.017	0.00425126
12/20/2001	24587		0		0		0	Non-detect	Non-detect

Table No. 2-3

KMCC-FPD Facility - Columbus, MS
Month/Year - Nov-01 (Page 1 of 1)

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	23,665					
2	28,565					
3	20,154					
4	20,154					
5	29,657					
6	24,516					
7	30,114					5.60
8	31,206					
9	25,687					
10	24,103					
11	24,103					
12	26,598					
13	25,696	8.00		30.10	6.42	6.30
14	20,364					
15	25,189					
16	24,785					
17	19,650					
18	19,650					
19	25,888					
20	30,141					
21	21,025					6.60
22	18,333					
23	18,335					
24	18,336					
25	18,500					
26	22,564					
27	28,596					
28	27,874	9.00		9.65	2.23	6.60
29	28,565					
30	24,578					
31						
Avg.	**24,220**	**8.50**		**19.88**	**4.33**	**6.28**
Max.	**31,206**	**9.00**		**30.10**	**6.42**	**6.60**
Min.	**18,333**	**8.00**		**9.65**	**2.23**	**5.60**

Table No. 2-3

KMCC-FPD Facility - Columbus, MS
Month/Year - Oct-01

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	26,335					
2	28,561					
3	20,336					6.60
4	28,950					
5	25,411					
6	21,003					
7	21,003					
8	31,265					
9	29,620					
10	24,789	8.00		25.30	5.21	6.80
11	25,413					
12	28,599					
13	19,650					
14	19,650					
15	27,859					
16	25,698					
17	32,005					6.80
18	30,006					
19	25,162					
20	24,512					
21	20,205					
22	29,045					
23	26,590					
24	22,069	8.00		15.15	2.78	6.60
25	27,806					
26	24,656					
27	22,560					
28	19,865					
29	25,603					
30	29,558					
31	31,025					6.40
Avg.	**25,639**	**8.00**		**20.23**	**3.99**	**6.64**
Max.	**32,005**	**8.00**		**25.30**	**5.21**	**6.80**
Min.	**19,650**	**8.00**		**15.15**	**2.78**	**6.40**

Table No. 2-3

KMCC-FPD Facility - Columbus, MS
Month/Year - Sep-01

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	25,890					
2	25,900					
3	26,998					
4	28,514					
5	25,661					7.20
6	24,155					
7	29,336					
8	20,115					
9	20,115					
10	31,256					
11	28,956					
12	22,457	9.00		0.55	0.10	6.40
13	25,585					
14	24,562					
15	23,010					
16	23,010					
17	29,556					
18	32,665					
19	33,256					6.40
20	25,789					
21	24,692					
22	20,450					
23	20,450					
24	27,856					
25	23,695					
26	27,410	9.00		7.70	1.75	7.50
27	22,569					
28	30,115					
29	22,640					
30	22,640					
31						
Avg.	**25,643**	**9.00**		**4.13**	**0.93**	**6.88**
Max.	**33,256**	**9.00**		**7.70**	**1.75**	**7.50**
Min.	**20,115**	**9.00**		**0.55**	**0.10**	**6.40**

Table No. 2-3

KMCC-FPD Facility - Columbus, MS
Month/Year - Aug-01

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	25,336					5.50
2	24,589					
3	20,147					
4	22,654					
5	22,654					
6	29,874					
7	24,587					
8	26,953					6.10
9	27,851					
10	25,666					
11	27,555					
12	27,555					
13	26,986					
14	28,598					
15	29,330	9.00		1.90	0.46	6.10
16	30,145					
17	26,879					
18	24,788					
19	24,788					
20	24,741					
21	26,963					
22	27,514	9.00		17.95	4.10	6.80
23	20,369					
24	27,841					
25	21,151					
26	21,151					
27	25,858					
28	30,621					
29	31,201					
30	25,415					
31	23,965					6.90
Avg.	**25,927**	**9.00**		**9.93**	**2.28**	**6.28**
Max.	**31,201**	**9.00**		**17.95**	**4.10**	**6.90**
Min.	**20,147**	**9.00**		**1.90**	**0.46**	**5.50**

Table No. 2-3

KMCC-FPD Facility - Columbus, MS
Month/Year - Jul-01 (Page 1 of 1)

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	26,995					
2	27,551					
3	24,661					
4	23,992					
5	25,310					
6	25,605	9.00		14.90	3.17	6.70
7	25,605					
8	29,665					
9	27,854					
10	30,110					
11	29,586					7.00
12	20,336					
13	24,781					
14	24,110					
15	24,110					
16	31,025					
17	22,013					
18	27,510	10.00		19.95	4.56	7.40
19	26,999					
20	24,101					
21	21,069					
22	21,069					
23	25,885					
24	29,780					
25	22,036					5.80
26	25,499					
27	24,562					
28	27,014					
29	27,014					
30	22,694					
31	21,365					
Avg.	**25,481**	**9.50**		**17.43**	**3.86**	**6.73**
Max.	**31,025**	**10.00**		**19.95**	**4.56**	**7.40**
Min.	**20,336**	**9.00**		**14.90**	**3.17**	**5.80**

DMR REPORT(Attachment)

PERMIT NO. MSP091064

PARAMETER	TEST METHOD USED	DET LIMIT	UNITS
Toluene	624	.005	mg/L
Vinyl Chloride	624	.001	mg/L
Chlorinated Ethanes	624	.005	mg/L

DMR REPORT(Attachment)

PERMIT NO. MSP091064

PARAMETER	TEST METHOD USED	DET LIMIT	UNITS
Toluene	624	.005	mg/L
Vinyl Chloride	624	.001	mg/L
Chlorinated Ethanes	624	.005	mg/L

Table No. 2-3

KMCC-FPD Facility - Columbus, MS
Month/Year - Jun-01

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	28,996					
2	25,663					
3	15,006					
4	26,993					
5	28,451					
6	24,569	9.00		14.90	3.04	5.90
7	28,005					
8	30,210					
9	26,369					
10	17,001					
11	24,851					
12	26,987					
13	28,756					5.60
14	29,300					
15	30,625					
16	16,565					
17	22,013					
18	28,514					
19	31,205					
20	22,695	8.00		4.15	0.78	7.50
21	32,652					
22	26,591					
23	28,522					
24	16,256					
25	29,652					
26	24,789					
27	32,658					7.00
28	29,561					
29	24,512					
30	29,965					
31						
Avg.	**26,264**	**8.50**		**9.53**	**1.91**	**6.50**
Max.	**32,658**	**9.00**		**14.90**	**3.04**	**7.50**
Min.	**15,006**	**8.00**		**4.15**	**0.78**	**5.60**

Table No. 2-3

KMCC-FPD Facility - Columbus, MS
Month/Year - May-01

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	25,665					
2	24,620					7.30
3	26,631					
4	27,112					
5	21,663					
6	18,562					
7	26,879					
8	22,336					
9	24,699	11.00		14.75	3.03	6.50
10	20,587					
11	29,981					
12	28,463					
13	17,864					
14	26,339					
15	24,669					
16	28,561					6.70
17	26,933					
18	24,716					
19	28,551					
20	16,597					
21	20,689					
22	27,116					
23	23,574	9.00		5.90	1.15	6.00
24	25,697					
25	33,625					
26	20,113					
27	20,113					
28	20,113					
29	23,696					
30	30,147					7.50
31	28,612					
Avg.	**24,675**	**10.00**		**10.33**	**2.09**	**6.80**
Max.	**33,625**	**11.00**		**14.75**	**3.03**	**7.50**
Min.	**16,597**	**9.00**		**5.90**	**1.15**	**6.00**

Table No. 2-3

KMCC-FPD Facility - Columbus, MS
Month/Year - Apr-01

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	17,025					
2	28,992					
3	27,456					
4	25,884					7.60
5	24,691					
6	26,953					
7	27,825					
8	15,690					
9	22,589					
10	26,334					
11	20,856	9.00		4.15	0.72	7.80
12	11,556					
13	12,785					
14	10,115					
15	10,115					
16	14,001					
17	12,389					
18	9,966					7.50
19	11,332					
20	9,877					
21	9,965					
22	9,965					
23	11,659					
24	10,236					
25	10,475	8.00		2.50	0.22	7.70
26	11,111					
27	10,399					
28	9,789					
29	9,789					
30	10,456					
31						
Avg.	**15,676**	**8.50**		**3.33**	**0.47**	**7.65**
Max.	**28,992**	**9.00**		**4.15**	**0.72**	**7.80**
Min.	**9,789**	**8.00**		**2.50**	**0.22**	**7.50**

Table No. 2-3

FACIILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - Mar-01

Permit Requirement		O&G		PHENOLS		pH
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	20,115					
2	24,115					
3	10,902					
4	10,903					
5	25,699					
6	22,118					
7	23,024					7.50
8	20,789					
9	23,046					
10	11,220					
11	11,220					
12	20,410					
13	26,990					
14	22,477	10.00		76.30	14.24	7.10
15	26,330					
16	20,889					
17	10,565					
18	10,565					
19	23,365					
20	23,009					
	18,556					7.50
	17,456					
	18,220					
	19,577					
25	16,578					
26	38,990	8.00		11.95	3.87	
27	16,554					
28	14,501					7.70
29	16,994					
30	17,849					
31	9,996					
Avg.	**19,130**	**9.00**		**44.13**	**9.06**	**7.45**
Max.	**38,990**	**10.00**		**76.30**	**14.24**	**7.70**
Min.	**9,996**	**8.00**		**11.95**	**3.87**	**7.10**

Table No. 2-3

FACIILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - Jan-01

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	5,290					
2	6,351					
3	5,202					7.20
4	23,996					
5	19,855					
6	12,011					
7	4,963					
8	4,278					
9	3,996					
10	20,007					7.40
11	22,968					
12	25,106					
13	11,036					
14	4,525					
15	5,108					
16	22,311					
17	25,787	9.00		26.30	5.63	7.20
18	20,964					
19	21,156					
20	9,652					
21	4,012					
22	18,963					
23	24,155					
24	17,895					6.70
25	22,603					
26	21,841					
27	8,633					
28	4,105					
29	4,656					
30	3,981					
31	5,577	8.00		4.95	0.23	7.10
Avg.	**13,258**	**8.50**		**15.63**	**2.93**	**7.12**
Max.	**25,787**	**9.00**		**26.30**	**5.63**	**7.40**
Min.	**3,981**	**8.00**		**4.95**	**0.23**	**6.70**

Table No. 2-3 **FACIILITY DISCHARGE MONITORING RECORD**

KMCC-FPD Facility - Columbus, MS
Month/Year - Nov-00

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	3,820					7.80
2	3,216					
3	3,688					
4	2,499					
5	3,504					
6	21,006					
7	19,225					
8	23,995	8.00		32.25	6.43	7.50
9	21,663					
10	3,006					
11	3,522					
12	4,566					
13	22,778					
14	19,662					
15	16,225					7.00
16	15,897					
17	18,996					
18	2,255					
19	2,466					
20	2,489					
21	3,369					
22	6,201	7.00		1.45	0.07	8.10
23	2,489					
24	2,477					
25	2,698					
26	3,102					
27	3,345					
28	2,005					
29	2,899					7.80
30	3,850					
31						
Avg.	**8,230**	**7.50**		**16.85**	**3.25**	**7.64**
Max.	**23,995**	**8.00**		**32.25**	**6.43**	**8.10**
Min.	**2,005**	**7.00**		**1.45**	**0.07**	**7.00**

Table No. 2-3 **FACIILITY DISCHARGE MONITORING RECORD**

KMCC-FPD Facility - Columbus, MS
Month/Year - Oct-00

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	4,655					
2	4,520					
3	4,102					
4	5,012					7.80
5	3,860					
6	20,162					
7	3,700					
8	3,200					
9	3,156					
10	4,025					
11	4,655	8.00		3.50	0.14	7.70
12	5,102					
13	5,008					
14	4,100					
15	4,100					
16	22,223					
17	19,847					
18	18,382					7.80
19	20,144					
20	22,003					
21	4,206					
22	3,399					
23	3,507					
24	3,859					
25	19,347	12.00		0.50	0.08	7.80
26	18,996					
27	20,118					
28	4,156					
29	4,788					
30	3,930					
31	3,710					
Avg.	**8,773**	**10.00**		**2.00**	**0.11**	**7.78**
Max.	**22,223**	**12.00**		**3.50**	**0.14**	**7.80**
Min.	**3,156**	**8.00**		**0.50**	**0.08**	**7.70**

Table No. 2-3 **FACIILITY DISCHARGE MONITORING RECORD**

KMCC-FPD Facility - Columbus, MS
Month/Year - Sep-00

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	8,110					
2	7,415					
3	5,990					
4	8,120					
5	23,369					
6	24,585					6.60
7	20,119					
8	22,758					
9	7,541					
10	7,620					
11	7,620					
12	6,932					
13	6,578	8.00		1.15	0.06	7.80
14	7,750					
15	8,362					
16	8,451					
17	7,902					
18	5,796					
19	5,522					
20	27,581					7.60
21	22,115					
22	5,689					
23	5,781					
24	6,205					
25	6,390					
26	26,993					
27	24,110	10.00		27.90	5.59	6.90
28	23,975					
29	15,812					
30	16,100					
31						
Avg.	**12,710**	**9.00**		**14.53**	**2.82**	**7.23**
Max.	**27,581**	**10.00**		**27.90**	**5.59**	**7.80**
Min.	**5,522**	**8.00**		**1.15**	**0.06**	**6.60**

Table No. 2-3 **FACIILITY DISCHARGE MONITORING RECORD**

KMCC-FPD Facility - Columbus, MS
Month/Year - Aug-00

Permit Requirement		O&G		PHENOLS		pH
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	21,155					
2	23,362	11.00		35.5	6.89	6.70
3	22,153					
4	19,684					
5	18,566					
6	11,223					
7	14,562					
8	19,968					
9	22,041					6.30
10	22,455					
11	15,987					
12	14,003					
13	12,001					
14	11,564					
15	20,047					
16	25,663	9.00		11.85	2.53	7.30
17	24,789					
18	24,581					
19	18,925					
20	14,741					
21	12,036					
22	10,658					
23	19,098					6.70
24	21,337					
25	15,474					
26	11,305					
27	10,952					
28	11,456					
29	12,001					
30	10,743	11.00		1.85	0.17	7.50
31	19,589					
Avg.	**17,165**	**10.33**		**16.40**	**3.19**	**6.90**
Max.	**25,663**	**11.00**		**35.50**	**6.89**	**7.50**
Min.	**10,658**	**9.00**		**1.85**	**0.17**	**6.30**

Table No. 2-3 **FACIILITY DISCHARGE MONITORING RECORD**

KMCC-FPD Facility - Columbus, MS
Month/Year - Jul-00

Permit Requirement		O&G		PHENOLS		pH
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	8,440					
2	8,440					
3	8,440					
4	8,440					
5	8,965	8.00		2.35	0.17	7.00
6	9,585					
7	9,756					
8	10,256					
9	10,256					
10	21,065					
11	22,456					
12	22,100					7.30
13	24,156					
14	20,369					
15	14,788					
16	14,788					
17	20,118					
18	23,665					
19	18,559	9.00		18.65	2.87	7.30
20	19,667					
21	18,559					
22	17,854					
23	17,854					
24	23,698					
25	24,788					
26	20,114					7.50
27	18,594					
28	19,556					
29	14,227					
30	14,227					
31	26,958					
Avg.	**16,798**	**8.50**		**10.50**	**1.52**	**7.28**
Max.	**26,958**	**9.00**		**18.65**	**2.87**	**7.50**
Min.	**8,440**	**8.00**		**2.35**	**0.17**	**7.00**

Table No. 2-3 **FACIILITY DISCHARGE MONITORING RECORD**

KMCC-FPD Facility - Columbus, MS
Month/Year - Jun-00

Permit Requirement		O&G		PHENOLS		pH
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	33,520					
2	21,560					
3	17,455					
4	14,988					
5	26,987					
6	24,899					
7	25,566	9.00		6.50	1.38	7.20
8	15,998					
9	10,225					
10	12,332					
11	12,332					
12	21,899					
13	22,545					
14	24,556					7.40
15	27,840					
16	26,558					
17	14,662					
18	14,662					
19	24,883					
20	26,357					
21	21,447	9.00		3.50	0.62	7.20
22	15,662					
23	12,669					
24	11,785					
25	11,785					
26	15,693					
27	14,782					
28	12,458					7.20
29	8,556					
30	4,880					
31						
Avg.	**18,318**	**9.00**		**5.00**	**1.00**	**7.25**
Max.	**33,520**	**9.00**		**6.50**	**1.38**	**7.40**
Min.	**4,880**	**9.00**		**3.50**	**0.62**	**7.20**

Table No. 2-3 **FACIILITY DISCHARGE MONITORING RECORD**

KMCC-FPD Facility - Columbus, MS
Month/Year - May-00 (Page 1 of 1)

Permit Requirement		O&G		PHENOLS		pH
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	25,112					
2	20,156					
3	27,445					7.11
4	22,005					
5	20,113					
6	18,224					
7	10,227					
8	26,995					
9	24,556					
10	20,117	9.00		26.30	4.39	7.40
11	23,396					
12	24,859					
13	15,698					
14	11,478					
15	25,841					
16	22,789					
17	24,585					7.40
18	20,145					
19	22,455					
20	16,334					
21	9,877					
22	25,787					
23	25,454					
24	20,141	11.00		38.65	6.46	6.70
25	22,879					
26	26,958					
27	16,005					
28	12,447					
29	23,852					
30	25,485					
31	24,577					6.40
Avg.	**21,161**	**10.00**		**32.48**	**5.43**	**7.00**
Max.	**27,445**	**11.00**		**38.65**	**6.46**	**7.40**
Min.	**9,877**	**9.00**		**26.30**	**4.39**	**6.40**

Table No. 2-3 **FACIILITY DISCHARGE MONITORING RECORD**

KMCC-FPD Facility - Columbus, MS
Month/Year - Apr-00 (Page 1 of 1)

Permit Requirement		O&G		PHENOLS		pH
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	1,120					
2	55,890					
3	62,858					
4	57,441					
5	30,225					8.00
6	32,669					
7	34,551					
8	31,008					
9	29,568					
10	24,789					
11	25,547					
12	29,698	14.00		53.70	13.24	7.10
13	25,301					
14	27,848					
15	24,141					
16	22,006					
17	23,511					
18	20,155					
19	25,625					7.00
20	28,787					
21	25,601					
22	22,541					
23	23,306					
24	30,885					
25	24,567					
26	28,585	9.00		8.00	1.90	7.50
27	24,411					
28	22,458					
29	25,456					
30	20,154					
31						
Avg.	**28,690**	**11.50**		**30.85**	**7.57**	**7.40**
Max.	**62,858**	**14.00**		**53.70**	**13.24**	**8.00**
Min.	**1,120**	**9.00**		**8.00**	**1.90**	**7.00**

Table No. 2-3 **FACIILITY DISCHARGE MONITORING RECORD**

KMCC-FPD Facility - Columbus, MS
Month/Year - Mar-00

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	22,566	9.00		33.90	6.35	7.50
2	25,669					
3	24,569					
4	28,995					
5	24,667					
6	28,511					
7	20,396					
8	27,456					7.40
9	24,581					
10	20,358					
11	29,685					
12	33,115					
13	30,225					
14	28,520					
15	24,561	10.00		4.96	1.01	7.10
16	24,655					
17	24,158					
18	22,653					
19	27,895					
20	26,778					
21	25,778					
22	24,101					
23	29,562					7.40
24	24,115					
25	27,444					
26	20,778					
27	29,561					
28	24,771					
29	26,591					
30	25,885	12.00		75.90	16.31	6.20
31	35,661					
Avg.	**26,266**	**10.33**		**38.25**	**7.89**	**7.12**
Max.	**35,661**	**12.00**		**75.90**	**16.31**	**7.50**
Min.	**20,358**	**9.00**		**4.96**	**1.01**	**6.20**

Table No. 2-3

FACIILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - Mar-00

(Page 1 of 1)

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	22,566	9.00		33.90	6.35	7.50
2	25,669					
3	24,569					
4	28,995					
5	24,667					
6	28,511					
7	20,396					
8	27,456					7.40
9	24,581					
10	20,358					
11	29,685					
12	33,115					
13	30,225					
14	28,520					
15	24,561	10.00		4.96	1.01	7.10
16	24,655					
17	24,158					
18	22,653					
19	27,895					
20	26,778					
21	25,778					
22	24,101					
23	29,562					7.40
24	24,115					
25	27,444					
26	20,778					
27	29,561					
28	24,771					
29	26,591					
30	25,885	12.00		75.90	16.31	6.20
31	35,661					
Avg.	**26,266**	**10.33**		**38.25**	**7.89**	**7.12**
Max.	**35,661**	**12.00**		**75.90**	**16.31**	**7.50**
Min.	**20,358**	**9.00**		**4.96**	**1.01**	**6.20**

This is a fax from...

KERR-McGEE CHEMICAL LLC

FOREST PRODUCTS DIVISION
2300 14th Avenue North
Columbus, MS 39701
662-328-7551
fax: 662-329-3424

TO:	STEVE LADNER	FROM:	CHUCK SWANN
Company:	KMCCLLCFPD	Date:	3/9/00
Fax No.		Pages, incl. Cov	2

Comments

Steve,
Please find the results of samples taken for waste water permit.

Gwen Dauphin
Administrative Clerk

March 7, 2000

ENVIRO-LABS, INC
601 Gillespie Street
P. O. Box 1096
Starkville, MS 39760-1096
1-662-323-7764
1-662-324-1745 & FAX
USEPA Labcode: MS00023

TO: Kerr McGee Chemical
Forest Products Division
Attn: Ron Murphey
2300 14th Avenue North
Columbus, MS 39701

Lab ID.#	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
2513	Effluent	2/09/00	BOD	51 mg/l	198 mg/l	163- 237 mg/l	405.1
			COD	530 mg/l			8000
			SUSPENDED SOLIDS	57 mg/l	79 mg/l	78 - 82 mg/l	160.2
			AMMONIA-N	20.0 mg/l			350.3
			TKN	18.0 mg/l			351.4
			TOP	0.41 mg/l			365.3
			SULFATE	4200 mg/l			375.4
			SULFITE	3.5 mg/l			377.1
			SULFIDE	0.25 mg/l			376.1
			NITRATE-N	0.9 mg/l			352.1
			NITRITE-N	<0.02 mg/l			354.1
			IRON	15.58 mg/l			236.1
			MAGNESIUM	8.61 mg/l			242.1
			MANGANESE	3.36 mg/l			243.1

***THE TESTS PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTE.

Approved: _____

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

February 29, 2000

Nick Bock
KERR McGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION
123 Robert S. Kerr Avenue
Oklahoma City, OK 73102

Project: **EFFLUENT WEIR**
SWLO ID: **42030.01**

Dear Mr. Bock:

Enclosed please find the standard tabular report, DMOL summary report, and SEADATA deliverable for your sample received on February 10, 2000.

Thank you for choosing Southwest Labs. If, in your review, you should have any questions or require additional information, please do not hesitate to call.

Sincerely,

Randy Staggs
Project Officer

Enclosures

RES/slc

Cc: Facility Manager (Hardcopy & DMOL)
2300 14th Avenue
Columbus, MS 39701

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W. Albany • Broken Arrow, Oklahoma 74012-1421
Office: 918-251-2858 • Fax 918-251-2599

TM

SAMPLING FIRM	CLIENT CONTACT	PHONE NUMBER
Ken McGee	Chuck Swann	662-328-7551

P.O. or PROPOSAL NUMBER	PROJECT NAME
	SPECIAL EFFLUENT WIER

SAMPLER (Signature): Charles Swann

SAMPLE NO.	DATE	TIME	COMP.	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	ANALYTICAL TESTS REQUESTED: Metals	Total Phenol	VOC						REMARKS
1	2/9/00	6A	X		Effluent Weir	Waste Water	1	X								
2	2/9/00	6A	X		Effluent Wier	Waste Water	1		X							
3	2/9/00	6A	X		Effluent Wier	Waste Water	2			X						
4																

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
Charles J Swann	2/9/00	10 AM	

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY: (Signature)
	2-10-00	8:45	

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

REMARKS: 2.3°c

[SR012-1192-03]

COOLER RECEIPT / SAMPLE LOG-IN SHEET

COOLER RECEIPT / SAMPLE LOG-IN SHEET (115-ATT2.WB1) / SWL-GA-115 REV 5.0 / GA-115-CRLOGIN-F

LAB NAME: SOUTHWEST LABORATORY OF OKLAHOMA

RECEIVED BY (PRINT NAME): DON WILLIS

RECEIVED BY (SIGNATURE):

LOGGED IN BY (SIGNATURE): S. Hoolaan

REC'D DATE 02/10/00

TIME REC'D 08:45

LOG-IN DATE 2000-02-11 15:55

PROJECT: EFFLUENT WEIR

EPISODE: 42030

SAMPLE DELIVERY GROUP:42030

Remarks

1. CUSTODY SEAL(S): Present/Absent
   Intact/ Broken
2. CUSTODY SEALS NOS.:
   N/A
3. CHAIN-OF CUSTODY. Present/Absent
   Sealed In Plastic? Yes/ No
   Taped To Lid? Yes/ No
   Properly Filled Out
   (Ink, Signed, ETC.)? Yes/ No
4. AIRBILL AirBil/ Sticker
   Present/Absent
5. AIRBILL NO:
   791043631366
6. COOLER CONDITIONS
   Enough Ice? Yes/ No
   Type of Ice? Wet
   Type of Packing? Bubble Wrap
7. SAMPLE TAGS Present/Absent
8. SAMPLE CONDITION: Intact/ Broken*/ Leaking
   Bottles Sealed In Separate Plastic Bags? Yes/ No
   Correct Containers Used For Tests Indicated? Yes/ No
   Correct Preservative? Yes/ No
   Sufficient Sample? Yes/ No
   Labels Complete (I.D., Date, Time, Signature, Preservative? Yes/ No
   VOA Samples Without Bubbles? Yes/ No~
9. Does Information on Custody Records,Labels,Tags Agree? Yes/ No*
10. RAD SCREEN WITH GIEGER COUNTER? Yes/ No
11. P.O. Called? Yes/ No

Client Sample #	Sample Fraction @	Assigned LAB#	Cooler I.D.	pH Check	ACID/ BASE LOT#	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
EFFLUENT WEIR	I, M, B	42030.01	02/10/00-1	Y		2.3 C

* Contact PO and attach record of resolution

@ Sample Fractions: B=SV GC/MS, V= VOA GC/MS or GC, P=Pesticide,H=Herbicide, D=Dioxin, A=Air, I=Inorganics, C=Cyanide, M=Metals, R=Radiochemistry

~ Note samples with bubbles under remarks section.

IN122/07-11-97

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

GENERAL CHEMISTRY
INORGANICS QUALITY CONTROL DATA SHEET
LCS/LCSD

MATRIX **WATER**

EPISODE 42030
CLIENT KMFP-COL

PARAMETER	TEST CODE	UNITS	METHOD BLANK AMT. FOUND	METHOD BLANK DET. LIMIT	LCS KNOWN CONC.	LCS AMT. FOUND	LCS %REC	LCS %REC LIMITS		LCS FLAG	LCS DUPLICATE AMT. FOUND	LCS DUPLICATE %REC.	LCS DUPLICATE FLAG	RPD RPD	RPD LIMIT	RPD FLAG	BATCHID	DATE ANALYZED	ANA-LYST INI.
Phenol	IN230	mg/l	<0.05	0.05	1.0	1.0	100	80	120		1.0	100		0.0	20		0002282301	28-Feb-2000	TGG

NARRATIVE:
OUTSIDE QC LIMITS

42030
/GLCSW REV 4.2
29-Feb-2000 CT

SOUTHWEST LABORATORY OF OKLAHOMA
1700 West Albany, Suite A/ Broken Arrow, OK 74012
918-251-2858

SDG NARRATIVE

February 17, 2000

CONTRACT: KMFP-COL

PROJECT: EFFLUENT WEIR

SDG NO: 42030

SEMIVOLATILE FRACTION

One water sample was submitted for Semivolatile Organic analyses. The sample was analyzed by GC/MS following ~~SW846-8270C~~ EPA 625M (RQ) for a short list of compounds.

SWLO uses a 2uL injection for method ~~SW846-8270C~~ EPA 625M (RQ) as allowed by the method and has added two extra "advisory surrogates (one acid and one base/neutral)" to the surrogate spiking mix. These surrogates are 1,2-dichlorobenzene-d4 and 2-chlorophenol-d4 and have advisory control limits. The surrogates, laboratory control spikes and matrix spikes are spiked at 75 ug/L (waters) and 2500ug/Kg (soils) for the acid surrogates and 50 ug/L (waters) and 1700 (actual 1667) ug/Kg (soils) for base/neutral surrogates. The instrument calibration range is from 10 ug/L to 80 ug/L for waters and 330 ug/Kg to 2700 ug/Kg for soils, which relates to 20 ng on column (low cal. std.) up to 160 ng on column (high cal. std.).

No major problems occurred during the analyses of these samples. Sample was diluted for target compounds above instruments linear range.

Extraction: This set of samples was extracted by SW846-3520C.

Blanks: No target analytes were detected in the extraction blank.

Surrogates: All surrogates were within QC limits. The diluted sample had all surrogates diluted out.

Matrix Spikes: EFFLUENT WEIRMS/MSD had 10 out of 22 spike compounds outside of QC limits ranging from 87% to 510%.

Laboratory Control Spikes: The LCS had all spikes within QC limits. The LCSD had slightly high recovery for 4 out of 11 spike compounds ranging from 86% to 98%.

Internal Standards: The following samples had internal standard areas outside of QC limits: EFFLUENTWEIR, EFFLUENTWEIRMS and EFFLUENTWEIRMSD.

Harry M. Borg
Organic Program Manager

February 17, 2000

SWLO Qualifier Flags

METHODOLOGY

SM	=	Standard Methods, 18th Edition, 1992
EPA	=	#EPA600 / 4-79-020, March 1985
SW	=	EPA Methodology, "#SW846", Final Update III, June, 1997

GENERAL QUALIFIER FLAGS

B	=	Analyte is detected in blank as well as sample
J	=	Estimated value: concentration is below limit of quantitation
T	=	Trace amount
U	=	Not detected
>	=	Concentration greater than value reported
E	=	Compound exceeds calibration range
D	=	Sample dilution run or surrogates diluted out Sample run at secondary dilution
I	=	Not quantifiable due to matrix interference
*	=	Surrogate outside of QC limits on both original and re-analysis
P	=	Pesticide Aroclor Flag used when >25% difference between two GC columns. The lower of the two values is reported.

TPH 8015

1	=	Analysis shows miscellaneous peaks, which cannot be identified as any specific pattern. Response factor for nearest eluting hydrocarbon standard was used to calculate concentration.
2	=	Pattern is similar to, but not identical to standard.
3	=	May be a weathered gasoline.

APPENDIX IX SEMIVOLATILES

1	=	Detected as Diphenylamine
2	=	Coelute on GC Column

TCLP SEMIVOLATILES

1	=	1-methyl phenol
2	=	Compounds Co-elute (3 & 4-methylphenol)
3	=	Combination of O, M, & P Cresols

DIOXINS

X	=	EMPC (Estimated Maximum Possible Concentration)
I *	=	EMPC – ether interference

Southwest Laboratory of Oklahoma, Inc.
Data Summary Report
By Sample Point

Date: 02/29/2000
Page: 1

Client: KERR MCGEE CHEMICAL CORP.

Project: EFFLUENT WEIR

Matrix: WATER	Sample Point-> / Sample Date-> / LAB#->	EFFLUENT WEIR 02/09/2000 42030.01	EFFLUENT WEIR 02/09/2000 42030.01 DL	EFFLUENT WEIR 02/09/2000 42030.01 MS1	EFFLUENT WEIR 02/09/2000 42030.01 SD1		
Parameters	Units						
SEMIVOLATILES							
CHLOROPHENOL	ug/L	10 U	2000 U	100	130		
2,4-DICHLOROPHENOL	ug/L	10 U	2000 U	25 U	25 U		
2,4-DIMETHYLPHENOL	ug/L	180 E	930 J	600 E	740 E		
2,4-DINITROPHENOL	ug/L	25 U	5000 U	62 U	62 U		
4-NITROPHENOL	ug/L	25 U	5000 U	130	160		
2-NITROPHENOL	ug/L	10 U	2000 U	25 U	25 U		
4-CHLORO-3-METHYLPHENOL	ug/L	10 U	2000 U	130	160		
PENTACHLOROPHENOL	ug/L	25 U	5000 U	200	230 E		
PHENOL	ug/L	1500 E	4200	2000 E	2400 E		
2,4,6-TRICHLOROPHENOL	ug/L	10 U	2000 U	25 U	25 U		
ACENAPHTHENE	ug/L	600 E	1900 J	1000 E	1100 E		
ACENAPHTHYLENE	ug/L	35	2000 U	36	38		
ANTHRACENE	ug/L	240 E	360 J	270 E	290 E		
BENZO(A)ANTHRACENE	ug/L	240 E	290 J	250 E	280 E		
BENZO(A)PYRENE	ug/L	95 E	2000 U	100	110		
BENZO(B)FLUORANTHENE	ug/L	110 E	100 J	120	130		
BENZO(G,H,I)PERYLENE	ug/L	26	2000 U	30	30		
BENZO(K)FLUORANTHENE	ug/L	80 E	2000 U	76	80		
CHRYSENE	ug/L	210 E	280 J	220 E	240 E		
DIBENZ(A,H)ANTHRACENE	ug/L	15	2000 U	18 J	18 J		
FLUORANTHENE	ug/L	480 E	1600 J	810 E	830 E		
FLUORENE	ug/L	490 E	1100 J	700 E	750 E		
INDENO(1,2,3-CD)PYRENE	ug/L	28	2000 U	33	33		
NAPHTHALENE	ug/L	1200 E	11000	1300 E	1600 E		
PHENANTHRENE	ug/L	610 E	3000	1100 E	1100 E		
PYRENE	ug/L	390 E	1000 J	770 E	790 E		
Metals Parameters							
ARSENIC	ug/l	10.3	-	-	-		
CHROMIUM	ug/l	5.0 U	-	-	-		
COPPER	ug/l	7.0 U	-	-	-		
MISCELLANEOUS							
PHENOLS	mg/l	10.2	-	-	-		

U: ANALYZED BUT NOT DETECTED
See enclosure for additional qualifiers
LMW1.0NNYYNNN

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORT : 42030.01
QAQC# : BB0212WB
INSTR SEQ:
REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR
LAB# : 42030.01
SAMPLE #: EFFLUENT WEIR
LOCATION:

SAMPLED : 02/09/00
SUBMITTED: 02/10/00
PREPARED : 02/12/00
ANALYZED : 02/15/00

DILUTION: 1.00000
MATRIX : Water
METHOD : EPA 625M

SEMIVOLATILES

RESULTS REPORTED IN ug/L

PARAMETER	RESULTS		PARAMETER	RESULTS	
2-CHLOROPHENOL	10	U	BENZO(A)ANTHRACENE	240	E
2,4-DICHLOROPHENOL	10	U	BENZO(A)PYRENE	95	E
2,4-DIMETHYLPHENOL	180	E	BENZO(B)FLUORANTHENE	110	E
2,4-DINITROPHENOL	25	U	BENZO(G,H,I)PERYLENE	26	
4-NITROPHENOL	25	U	BENZO(K)FLUORANTHENE	80	E
2-NITROPHENOL	10	U	CHRYSENE	210	E
4-CHLORO-3-METHYLPHENOL	10	U	DIBENZ(A,H)ANTHRACENE	15	
PENTACHLOROPHENOL	25	U	FLUORANTHENE	480	E
PHENOL	1500	E	FLUORENE	490	E
2,4,6-TRICHLOROPHENOL	10	U	INDENO(1,2,3-CD)PYRENE	28	
ACENAPHTHENE	600	E	NAPHTHALENE	1200	E
ACENAPHTHYLENE	35		PHENANTHRENE	610	E
ANTHRACENE	240	E	PYRENE	390	E

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(35-114)	111%	2-FLUOROPHENOL	(21-100)	54%
2-FLUOROBIPHENYL	(43-116)	86%	PHENOL-D5	(10- 94)	53%
TERPHENYL-D14	(33-141)	100%	2,4,6-TRIBROMOPHENOL	(10-123)	115%

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORT : 42030.01
QAQC# : BB0212WB
INSTR SEQ:
REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR
LAB# : 42030.01
SAMPLE #: EFFLUENT WEIR
LOCATION:

SAMPLED : 02/09/00
SUBMITTED: 02/10/00
PREPARED : 02/12/00
ANALYZED : 02/16/00

DILUTION: 200.000
MATRIX : Water
METHOD : EPA 625M

Dilution Run

SEMIVOLATILES

RESULTS REPORTED IN ug/L

PARAMETER	RESULTS		PARAMETER	RESULTS	
2-CHLOROPHENOL	2000	U	BENZO(A)ANTHRACENE	290	J
2,4-DICHLOROPHENOL	2000	U	BENZO(A)PYRENE	2000	U
2,4-DIMETHYLPHENOL	930	J	BENZO(B)FLUORANTHENE	100	J
2,4-DINITROPHENOL	5000	U	BENZO(G,H,I)PERYLENE	2000	U
4-NITROPHENOL	5000	U	BENZO(K)FLUORANTHENE	2000	U
2-NITROPHENOL	2000	U	CHRYSENE	280	J
4-CHLORO-3-METHYLPHENOL	2000	U	DIBENZ(A,H)ANTHRACENE	2000	U
PENTACHLOROPHENOL	5000	U	FLUORANTHENE	1600	J
PHENOL	4200		FLUORENE	1100	J
2,4,6-TRICHLOROPHENOL	2000	U	INDENO(1,2,3-CD)PYRENE	2000	U
ACENAPHTHENE	1900	J	NAPHTHALENE	11000	
ACENAPHTHYLENE	2000	U	PHENANTHRENE	3000	
ANTHRACENE	360	J	PYRENE	1000	J

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(35-114)	0% *	2-FLUOROPHENOL	(21-100)	0% *
2-FLUOROBIPHENYL	(43-116)	0% *	PHENOL-D5	(10- 94)	0% *
TERPHENYL-D14	(33-141)	0% *	2,4,6-TRIBROMOPHENOL	(10-123)	0% *

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORT : 42030.01

REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR
LAB# : 42030.01
SAMPLE #: EFFLUENT WEIR
LOCATION:

SAMPLED : 02/09/00
SUBMITTED: 02/10/00

MATRIX : Water

METALS PARAMETERS

PARAMETER	RESULTS		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
ARSENIC	10.3		ug/l	02/17/00	02/20/00	EPA 200.7
CHROMIUM	5.0	U	ug/l	02/17/00	02/20/00	EPA 200.7
COPPER	7.0	U	ug/l	02/17/00	02/20/00	EPA 200.7

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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KERR MCG-EE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORT : 42030.01

REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR
LAB# : 42030.01
SAMPLE #: EFFLUENT WEIR
LOCATION:

SAMPLED : 02/09/00
SUBMITTED: 02/10/00

MATRIX : Water

MISCELLANEOUS

PARAMETER	RESULTS	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
PHENOLS	10.2	mg/l		02/28/00	EPA 420.2

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

Quality Control Section

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORT : SBLK LB1
QAQC# : BB0212WB
INSTR SEQ:
REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR
SAMPLE #: SBLK LB1
LOCATION: LAB QC

PREPARED : 02/12/00
ANALYZED : 02/15/00

DILUTION: 1.00000
MATRIX : W
METHOD : EPA 625M

SEMIVOLATILES

RESULTS REPORTED IN ug/L

PARAMETER	RESULTS		PARAMETER	RESULTS	
2-CHLOROPHENOL	10	U	BENZO(A)ANTHRACENE	10	U
2,4-DICHLOROPHENOL	10	U	BENZO(A)PYRENE	10	U
2,4-DIMETHYLPHENOL	10	U	BENZO(B)FLUORANTHENE	10	U
2,4-DINITROPHENOL	25	U	BENZO(G,H,I)PERYLENE	10	U
4-NITROPHENOL	25	U	BENZO(K)FLUORANTHENE	10	U
2-NITROPHENOL	10	U	CHRYSENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U	DIBENZ(A,H)ANTHRACENE	10	U
PENTACHLOROPHENOL	25	U	FLUORANTHENE	10	U
PHENOL	10	U	FLUORENE	10	U
2,4,6-TRICHLOROPHENOL	10	U	INDENO(1,2,3-CD)PYRENE	10	U
ACENAPHTHENE	10	U	NAPHTHALENE	10	U
ACENAPHTHYLENE	10	U	PHENANTHRENE	10	U
ANTHRACENE	10	U	PYRENE	10	U

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(35-114)	97%	2-FLUOROPHENOL	(21-100)	64%
2-FLUOROBIPHENYL	(43-116)	95%	PHENOL-D5	(10- 94)	81%
TERPHENYL-D14	(33-141)	110%	2,4,6-TRIBROMOPHENOL	(10-123)	68%

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR

MATRIX : W

PREPARED 02/12/00

LAB ID	QC BATCH	ANALYZED
LCS	BB0212WB	02/15/00 13:04
LCSD	BB0212WB	02/15/00 13:41

SEMIVOLATILES
LABORATORY CONTROL SPIKE/SPIKE DUPLICATE RECOVERY

Parameter (ug/L)	SPIKED AMOUNT	SPIKE CONC.	SPIKE %Rec	DUP CONC.	DUP %Rec	RPD	MAX RPD	LIMITS %Rec.
PHENOL	75	56	75	61	81	8	24	10-102
2-CHLOROPHENOL	75	59	79	64	85	8	23	27- 94
1,4-DICHLOROBENZENE	50	39	78	43	86*	10	37	30- 81
N-NITROSO-DI-N-PROPYLAMIN	50	36	72	46	92	24	35	28- 95
1,2,4-TRICHLOROBENZENE	50	42	84	45	90*	7	31	32- 86
4-CHLORO-3-METHYLPHENOL	75	60	80	70	93*	15	22	32- 92
ACENAPHTHENE	50	46	92	49	98*	6	20	41- 93
4-NITROPHENOL	75	53	71	62	83	16	30	10-135
2,4-DINITROTOLUENE	50	36	72	42	84	15	32	39- 94
PENTACHLOROPHENOL	75	64	85	71	95	10	65	10-118
PYRENE	50	48	96	48	96	< 1	23	40-112

QA/QC SURROGATE RECOVERIES

Parameter	SPIKE %Rec	DUP %Rec	Limits
NITROBENZENE-D5	99	100	35-114
2-FLUOROPHENOL	55	64	21-100
2-FLUOROBIPHENYL	102	105	43-116
PHENOL-D5	76	84	10- 94
TERPHENYL-D14	109	112	33-141
2,4,6-TRIBROMOPHENOL	72	79	10-123

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR

MATRIX : W

PREPARED 02/12/00

LAB ID		CLIENT ID	QC BATCH	ANALYZED
42030.01		EFFLUENT WEIR	BB0212WB	02/15/00 14:30
42030.01	MS1	EFFLUENT WEIR	BB0212WB	02/15/00 15:06
42030.01	SD1	EFFLUENT WEIR	BB0212WB	02/15/00 15:42

SEMIVOLATILES
MATRIX SPIKE/SPIKE DUPLICATE RECOVERY

Parameter (ug/L)	SPIKED AMOUNT	SAMP CONC.	SPIKE CONC.	SPIKE %Rec	DUP CONC.	DUP %Rec	RPD	MAX RPD	LIMITS %Rec.
2-CHLOROPHENOL	190	ND	100	56	130	68	20	40	27-123
4-NITROPHENOL	190	ND	130	69	160	87*	23	50	10- 80
4-CHLORO-3-METHYLPHENOL	190	ND	130	71	160	86	19	42	23- 97
PENTACHLOROPHENOL	190	ND	200	105*	230	125*	18	50	9-103
PHENOL	190	1500	2000	278*	2400	510*	19	42	12-110
ACENAPHTHENE	120	600	1000	336*	1100	384*	6	31	46-118
PYRENE	120	390	770	304*	790	320*	2	31	26-127

QA/QC SURROGATE RECOVERIES

Parameter	SAMPLE %Rec	SPIKE %Rec	DUP %Rec	Limits
NITROBENZENE-D5	111	90*	118*	35-114
2-FLUOROPHENOL	54	44	54	21-100
2-FLUOROBIPHENYL	86	92	93	43-116
PHENOL-D5	53	54	63	10- 94
TERPHENYL-D14	100	97	109	33-141
2,4,6-TRIBROMOPHENOL	115	98	108	10-123

* = VALUES OUTSIDE OF QC LIMITS

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORT : 42030.01
QAQC# : BB0212WB
INSTR SEQ:
REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR
LAB# : 42030.01 MS1
SAMPLE #: EFFLUENT WEIR MS1
LOCATION:

SAMPLED : 02/09/00
SUBMITTED: 02/10/00
PREPARED : 02/12/00
ANALYZED : 02/15/00

DILUTION: 1.00000
MATRIX : Water
METHOD : EPA 625M

SEMIVOLATILES

RESULTS REPORTED IN ug/L

PARAMETER	RESULTS		PARAMETER	RESULTS	
2-CHLOROPHENOL	100		BENZO(A)ANTHRACENE	250	E
2,4-DICHLOROPHENOL	25	U	BENZO(A)PYRENE	100	
2,4-DIMETHYLPHENOL	600	E	BENZO(B)FLUORANTHENE	120	
2,4-DINITROPHENOL	62	U	BENZO(G,H,I)PERYLENE	30	
4-NITROPHENOL	130		BENZO(K)FLUORANTHENE	76	
2-NITROPHENOL	25	U	CHRYSENE	220	E
4-CHLORO-3-METHYLPHENOL	130		DIBENZ(A,H)ANTHRACENE	18	J
PENTACHLOROPHENOL	200		FLUORANTHENE	810	E
PHENOL	2000	E	FLUORENE	700	E
2,4,6-TRICHLOROPHENOL	25	U	INDENO(1,2,3-CD)PYRENE	33	
ACENAPHTHENE	1000	E	NAPHTHALENE	1300	E
ACENAPHTHYLENE	36		PHENANTHRENE	1100	E
ANTHRACENE	270	E	PYRENE	770	E

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(35-114)	90%	2-FLUOROPHENOL	(21-100)	44%
2-FLUOROBIPHENYL	(43-116)	92%	PHENOL-D5	(10- 94)	54%
TERPHENYL-D14	(33-141)	97%	2,4,6-TRIBROMOPHENOL	(10-123)	98%

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Attn: NICK BOCK

REPORT : 42030.01
QAQC# : BB0212WB
INSTR SEQ:
REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR
LAB# : 42030.01 SD1
SAMPLE #: EFFLUENT WEIR SD1
LOCATION:

SAMPLED : 02/09/00
SUBMITTED: 02/10/00
PREPARED : 02/12/00
ANALYZED : 02/15/00

DILUTION: 1.00000
MATRIX : Water
METHOD : EPA 625M

SEMIVOLATILES

RESULTS REPORTED IN ug/L

PARAMETER	RESULTS		PARAMETER	RESULTS	
2-CHLOROPHENOL	130		BENZO(A)ANTHRACENE	280	E
2,4-DICHLOROPHENOL	25	U	BENZO(A)PYRENE	110	
2,4-DIMETHYLPHENOL	740	E	BENZO(B)FLUORANTHENE	130	
2,4-DINITROPHENOL	62	U	BENZO(G,H,I)PERYLENE	30	
4-NITROPHENOL	160		BENZO(K)FLUORANTHENE	80	
2-NITROPHENOL	25	U	CHRYSENE	240	E
4-CHLORO-3-METHYLPHENOL	160		DIBENZ(A,H)ANTHRACENE	18	J
PENTACHLOROPHENOL	230	E	FLUORANTHENE	830	E
PHENOL	2400	E	FLUORENE	750	E
2,4,6-TRICHLOROPHENOL	25	U	INDENO(1,2,3-CD)PYRENE	33	
ACENAPHTHENE	1100	E	NAPHTHALENE	1600	E
ACENAPHTHYLENE	38		PHENANTHRENE	1100	E
ANTHRACENE	290	E	PYRENE	790	E

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(35-114)	118% *	2-FLUOROPHENOL	(21-100)	54%
2-FLUOROBIPHENYL	(43-116)	93%	PHENOL-D5	(10- 94)	63%
TERPHENYL-D14	(33-141)	109%	2,4,6-TRIBROMOPHENOL	(10-123)	108%

IN128/07-11-97

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

TRACE ICP
INORGANICS QUALITY CONTROL DATA SHEET
LCS/LCSD

MATRIX **WATER**

EPISODE 42030
CLIENT KMFP-COL

UNITS ug/l
BATCHID 000217I1

SAMPLE # METHOD BLANK
SPIKE # LCS
DUPLICATE # LCSD

PARAMETER	TEST CODE	METHOD BLANK AMT. FOUND	METHOD BLANK DET. LIMIT	LCS KNOWN CONC.	LCS AMT. FOUND	LCS %REC. % REC	LCS %REC. LIMITS		LCS FLAG	LCS DUPLICATE AMT. FOUND	LCS DUPLICATE %REC.	LCS DUPLICATE FLAG	RPD RPD	RPD LIMIT	RPD FLAG	DATE ANALYZED	ANALYST INITIALS	INSTR.
Arsenic	MT053	<10.0	10.0	80.0	91.4	114	80	120		92.0	115		0.7	20		20-Feb-2000	SR	ICP#1
Chromium	MT163	<5.0	5.0	200.0	193.0	97	80	120		194.0	97		0.5	20		20-Feb-2000	SR	ICP#1
Copper	MT203	<7.0	7.0	250.0	249.0	100	80	120		249.0	100		0.0	20		20-Feb-2000	SR	ICP#1

NARRATIVE:
* = OUTSIDE QC LIMITS

42030
/TRACELCW REV 4.2
29-Feb-2000 CT

IN122/07-11-97

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

GENERAL CHEMISTRY
INORGANICS QUALITY CONTROL DATA SHEET
LCS/LCSD

MATRIX **WATER**

EPISODE 42030
CLIENT KMFP-COL

PARAMETER	TEST CODE	UNITS	METHOD BLANK AMT. FOUND	METHOD BLANK DET. LIMIT	LCS KNOWN CONC.	LCS AMT. FOUND	LCS %REC	LCS %REC LIMITS		LCS FLAG	LCS DUPLICATE AMT. FOUND	LCS DUPLICATE %REC.	LCS DUPLICATE FLAG	RPD RPD	RPD LIMIT	RPD FLAG	BATCHID	DATE ANALYZED	ANA-LYST INI.
Phenol	IN230	mg/l	<0.05	0.05	1.0	1.0	100	80	120		1.0	100		0.0	20		0002282301	28-Feb-2000	TGG

NARRATIVE:
OUTSIDE QC LIMITS

42030
/GLCSW REV 4.2
29-Feb-2000 CT

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W. Albany • Broken Arrow, Oklahoma 74012-1421
Office: 918-251-2858 • Fax 918-251-2599
TM

SAMPLING FIRM	CLIENT CONTACT	PHONE NUMBER
Ken McGee	Chuck Swann	662-328-7551

P.O. or PROPOSAL NUMBER	PROJECT NAME
	SPECIAL EFFLUENT WIER

SAMPLER (Signature): Charles Swann

SAMPLE NO.	DATE	TIME	COMP.	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	ANALYTICAL TESTS REQUESTED: Metals	Total Phenols	VOC						REMARKS
1	2/9/00	6A	X		Effluent Weir	Waste Water	1	X								
2	2/9/00	6A	X		Effluent Wier	Waste Water	1		X							
3	2/9/00	6A	X		Effluent Wier	Waste Water	2			X						
4																

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
Charles Swann	2/9/00	10 AM	

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY: (Signature)
	2-10-00	8:45	

REMARKS: 2.3°c.

[SR012-1192-03]

COOLER RECEIPT / SAMPLE LOG-IN SHEET

COOLER RECEIPT / SAMPLE LOG-IN SHEET (115-ATT2.WB1) / SWL-GA-115 REV 5.0 / GA-115-CRLOGIN-F

LAB NAME: SOUTHWEST LABORATORY OF OKLAHOMA

RECEIVED BY (PRINT NAME): DON WILLIS

RECEIVED BY (SIGNATURE):

LOGGED IN BY (SIGNATURE): S. Hooban

REC'D DATE 02/10/00

TIME REC'D 08:45

LOG-IN DATE 2000-02-11 15:55

PROJECT: EFFLUENT WEIR

EPISODE: 42030

SAMPLE DELIVERY GROUP: 42030

Remarks

1. CUSTODY SEAL(S): Present/Absent
   Intact/ Broken
2. CUSTODY SEALS NOS.:
   N/A
3. CHAIN-OF CUSTODY. Present/Absent
   Sealed In Plastic? Yes/ No
   Taped To Lid? Yes/ No
   Properly Filled Out
   (Ink, Signed, ETC.)? Yes/ No
4. AIRBILL AirBII/ Sticker
   Present/Absent
5. AIRBILL NO:
   791043631366
6. COOLER CONDITIONS
   Enough Ice? Yes/ No
   Type of Ice? Wet
   Type of Packing? Bubble Wrap
7. SAMPLE TAGS Present/Absent
8. SAMPLE CONDITION: Intact/ Broken*/ Leaking
   Bottles Sealed In Separate Plastic Bags? Yes/ No
   Correct Containers Used For Tests Indicated? Yes/ No
   Correct Preservative? Yes/ No
   Sufficient Sample? Yes/ No
   Labels Complete (I.D., Date, Time, Signature, Preservative? Yes/ No
   VOA Samples Without Bubbles? Yes/ No~
9. Does Information on Custody Records,Labels,Tags Agree? Yes/ No*
10. RAD SCREEN WITH GIEGER COUNTER? Yes/ No
11. P.O. Called? Yes/ No

Client Sample #	Sample Fraction @	Assigned LAB#	Cooler I.D.	pH Check	ACID/ BASE LOT#	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
EFFLUENT WEIR	I, m, B	42030.01	02/10/00-1	Y		2.3 C

* Contact PO and attach record of resolution

@ Sample Fractions: B=SV GC/MS, V= VOA GC/MS or GC, P=Pesticide,H=Herbicide, D=Dioxin, A=Air, I=Inorganics, C=Cyanide, M=Metals, R=Radiochemistry

~ Note samples with bubbles under remarks section.

SOUTHWEST LABORATORY OF OKLAHOMA
1700 West Albany, Suite A/ Broken Arrow, OK 74012
918-251-2858

SDG NARRATIVE

February 17, 2000

CONTRACT: KMFP-COL

PROJECT: EFFLUENT WEIR

SDG NO: 42030

SEMIVOLATILE FRACTION

One water sample was submitted for Semivolatile Organic analyses. The sample was analyzed by GC/MS following ~~SW846-8270C~~ EPA 625M (RQ) for a short list of compounds.

SWLO uses a 2uL injection for method ~~SW846-8270C~~ EPA 625M (RQ) as allowed by the method and has added two extra "advisory surrogates (one acid and one base/neutral)" to the surrogate spiking mix. These surrogates are 1,2-dichlorobenzene-d4 and 2-chlorophenol-d4 and have advisory control limits. The surrogates, laboratory control spikes and matrix spikes are spiked at 75 ug/L (waters) and 2500ug/Kg (soils) for the acid surrogates and 50 ug/L (waters) and 1700 (actual 1667) ug/Kg (soils) for base/neutral surrogates. The instrument calibration range is from 10 ug/L to 80 ug/L for waters and 330 ug/Kg to 2700 ug/Kg for soils, which relates to 20 ng on column (low cal. std.) up to 160 ng on column (high cal. std.).

No major problems occurred during the analyses of these samples. Sample was diluted for target compounds above instruments linear range.

Extraction: This set of samples was extracted by SW846-3520C.

Blanks: No target analytes were detected in the extraction blank.

Surrogates: All surrogates were within QC limits. The diluted sample had all surrogates diluted out.

Matrix Spikes: EFFLUENT WEIRMS/MSD had 10 out of 22 spike compounds outside of QC limits ranging from 87% to 510%.

Laboratory Control Spikes: The LCS had all spikes within QC limits. The LCSD had slightly high recovery for 4 out of 11 spike compounds ranging from 86% to 98%.

Internal Standards: The following samples had internal standard areas outside of QC limits: EFFLUENTWEIR, EFFLUENTWEIRMS and EFFLUENTWEIRMSD.

Harry M. Borg
Organic Program Manager

February 17, 2000

SWLO Qualifier Flags

GENERAL
ADMINISTRATIVE

METHODOLOGY

SM	=	Standard Methods, 18th Edition, 1992
EPA	=	#EPA600 / 4-79-020, March 1985
SW	=	EPA Methodology, "#SW846", Final Update III, June, 1997

GENERAL QUALIFIER FLAGS

B	=	Analyte is detected in blank as well as sample
J	=	Estimated value: concentration is below limit of quantitation
T	=	Trace amount
U	=	Not detected
>	=	Concentration greater than value reported
E	=	Compound exceeds calibration range
D	=	Sample dilution run or surrogates diluted out Sample run at secondary dilution
I	=	Not quantifiable due to matrix interference
*	=	Surrogate outside of QC limits on both original and re-analysis
P	=	Pesticide Aroclor Flag used when >25% difference between two GC columns. The lower of the two values is reported.

TPH 8015

1	=	Analysis shows miscellaneous peaks, which cannot be identified as any specific pattern. Response factor for nearest eluting hydrocarbon standard was used to calculate concentration.
2	=	Pattern is similar to, but not identical to standard.
3	=	May be a weathered gasoline.

APPENDIX IX SEMIVOLATILES

1	=	Detected as Diphenylamine
2	=	Coelute on GC Column

TCLP SEMIVOLATILES

1	=	1-methyl phenol
2	=	Compounds Co-elute (3 & 4-methylphenol)
3	=	Combination of O, M, & P Cresols

DIOXINS

X	=	EMPC (Estimated Maximum Possible Concentration)
I *	=	EMPC – ether interference

Southwest Laboratory of Oklahoma, Inc.
Data Summary Report
By Sample Point

Date: 02/29/2000
Page: 1

Client: KERR MCGEE CHEMICAL CORP.

Project: EFFLUENT WEIR

Matrix: WATER	Sample Point-> / Sample Date-> / LAB#->	EFFLUENT WEIR 02/09/2000 42030.01	EFFLUENT WEIR 02/09/2000 42030.01 DL	EFFLUENT WEIR 02/09/2000 42030.01 MS1	EFFLUENT WEIR 02/09/2000 42030.01 SD1		
Parameters	Units						
SEMIVOLATILES							
2-CHLOROPHENOL	ug/L	10 U	2000 U	100	130		
2,4-DICHLOROPHENOL	ug/L	10 U	2000 U	25 U	25 U		
2,4-DIMETHYLPHENOL	ug/L	180 E	930 J	600 E	740 E		
2,4-DINITROPHENOL	ug/L	25 U	5000 U	62 U	62 U		
4-NITROPHENOL	ug/L	25 U	5000 U	130	160		
2-NITROPHENOL	ug/L	10 U	2000 U	25 U	25 U		
4-CHLORO-3-METHYLPHENOL	ug/L	10 U	2000 U	130	160		
PENTACHLOROPHENOL	ug/L	25 U	5000 U	200	230 E		
PHENOL	ug/L	1500 E	4200	2000 E	2400 E		
2,4,6-TRICHLOROPHENOL	ug/L	10 U	2000 U	25 U	25 U		
ACENAPHTHENE	ug/L	600 E	1900 J	1000 E	1100 E		
ACENAPHTHYLENE	ug/L	35	2000 U	36	38		
ANTHRACENE	ug/L	240 E	360 J	270 E	290 E		
BENZO(A)ANTHRACENE	ug/L	240 E	290 J	250 E	280 E		
BENZO(A)PYRENE	ug/L	95 E	2000 U	100	110		
BENZO(B)FLUORANTHENE	ug/L	110 E	100 J	120	130		
BENZO(G,H,I)PERYLENE	ug/L	26	2000 U	30	30		
BENZO(K)FLUORANTHENE	ug/L	80 E	2000 U	76	80		
CHRYSENE	ug/L	210 E	280 J	220 E	240 E		
DIBENZ(A,H)ANTHRACENE	ug/L	15	2000 U	18 J	18 J		
FLUORANTHENE	ug/L	480 E	1600 J	810 E	830 E		
FLUORENE	ug/L	490 E	1100 J	700 E	750 E		
INDENO(1,2,3-CD)PYRENE	ug/L	28	2000 U	33	33		
NAPHTHALENE	ug/L	1200 E	11000	1300 E	1600 E		
PHENANTHRENE	ug/L	610 E	3000	1100 E	1100 E		
PYRENE	ug/L	390 E	1000 J	770 E	790 E		
Metals Parameters							
ARSENIC	ug/l	10.3	-	-	-		
CHROMIUM	ug/l	5.0 U	-	-	-		
COPPER	ug/l	7.0 U	-	-	-		
MISCELLANEOUS							
PHENOLS	mg/l	10.2	-	-	-		

U: ANALYZED BUT NOT DETECTED
See enclosure for additional qualifiers
LMW1.0NNYYNNN

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORT : 42030.01
QAQC# : BB0212WB
INSTR SEQ:
REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR
LAB# : 42030.01
SAMPLE #: EFFLUENT WEIR
LOCATION:

SAMPLED : 02/09/00
SUBMITTED: 02/10/00
PREPARED : 02/12/00
ANALYZED : 02/15/00

DILUTION: 1.00000
MATRIX : Water
METHOD : EPA 625M

SEMIVOLATILES

RESULTS REPORTED IN ug/L

PARAMETER	RESULTS		PARAMETER	RESULTS	
2-CHLOROPHENOL	10	U	BENZO(A)ANTHRACENE	240	E
2,4-DICHLOROPHENOL	10	U	BENZO(A)PYRENE	95	E
2,4-DIMETHYLPHENOL	180	E	BENZO(B)FLUORANTHENE	110	E
2,4-DINITROPHENOL	25	U	BENZO(G,H,I)PERYLENE	26	
4-NITROPHENOL	25	U	BENZO(K)FLUORANTHENE	80	E
2-NITROPHENOL	10	U	CHRYSENE	210	E
4-CHLORO-3-METHYLPHENOL	10	U	DIBENZ(A,H)ANTHRACENE	15	
PENTACHLOROPHENOL	25	U	FLUORANTHENE	480	E
PHENOL	1500	E	FLUORENE	490	E
2,4,6-TRICHLOROPHENOL	10	U	INDENO(1,2,3-CD)PYRENE	28	
ACENAPHTHENE	600	E	NAPHTHALENE	1200	E
ACENAPHTHYLENE	35		PHENANTHRENE	610	E
ANTHRACENE	240	E	PYRENE	390	E

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(35-114)	111%	2-FLUOROPHENOL	(21-100)	54%
2-FLUOROBIPHENYL	(43-116)	86%	PHENOL-D5	(10- 94)	53%
TERPHENYL-D14	(33-141)	100%	2,4,6-TRIBROMOPHENOL	(10-123)	115%

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REPORT : 42030.01
QAQC# : BB0212WB
INSTR SEQ:
REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR
LAB# : 42030.01
SAMPLE #: EFFLUENT WEIR
LOCATION:

SAMPLED : 02/09/00
SUBMITTED: 02/10/00
PREPARED : 02/12/00
ANALYZED : 02/16/00

DILUTION: 200.000
MATRIX : Water
METHOD : EPA 625M

Dilution Run

SEMIVOLATILES

RESULTS REPORTED IN ug/L

PARAMETER	RESULTS		PARAMETER	RESULTS	
2-CHLOROPHENOL	2000	U	BENZO(A)ANTHRACENE	290	J
2,4-DICHLOROPHENOL	2000	U	BENZO(A)PYRENE	2000	U
2,4-DIMETHYLPHENOL	930	J	BENZO(B)FLUORANTHENE	100	J
2,4-DINITROPHENOL	5000	U	BENZO(G,H,I)PERYLENE	2000	U
4-NITROPHENOL	5000	U	BENZO(K)FLUORANTHENE	2000	U
2-NITROPHENOL	2000	U	CHRYSENE	280	J
4-CHLORO-3-METHYLPHENOL	2000	U	DIBENZ(A,H)ANTHRACENE	2000	U
PENTACHLOROPHENOL	5000	U	FLUORANTHENE	1600	J
PHENOL	4200		FLUORENE	1100	J
2,4,6-TRICHLOROPHENOL	2000	U	INDENO(1,2,3-CD)PYRENE	2000	U
ACENAPHTHENE	1900	J	NAPHTHALENE	11000	
ACENAPHTHYLENE	2000	U	PHENANTHRENE	3000	
ANTHRACENE	360	J	PYRENE	1000	J

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(35-114)	0% *	2-FLUOROPHENOL	(21-100)	0% *
2-FLUOROBIPHENYL	(43-116)	0% *	PHENOL-D5	(10- 94)	0% *
TERPHENYL-D14	(33-141)	0% *	2,4,6-TRIBROMOPHENOL	(10-123)	0% *

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Attn: NICK BOCK

REPORT : 42030.01

REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR
LAB# : 42030.01
SAMPLE #: EFFLUENT WEIR
LOCATION:

SAMPLED : 02/09/00
SUBMITTED: 02/10/00

MATRIX : Water

METALS PARAMETERS

PARAMETER	RESULTS		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
ARSENIC	10.3		ug/l	02/17/00	02/20/00	EPA 200.7
CHROMIUM	5.0	U	ug/l	02/17/00	02/20/00	EPA 200.7
COPPER	7.0	U	ug/l	02/17/00	02/20/00	EPA 200.7

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FOREST PRODUCTS DIVISION
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OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORT : 42030.01

REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR
LAB# : 42030.01
SAMPLE #: EFFLUENT WEIR
LOCATION:

SAMPLED : 02/09/00
SUBMITTED: 02/10/00

MATRIX : Water

MISCELLANEOUS

PARAMETER	RESULTS	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
PHENOLS	10.2	mg/l		02/28/00	EPA 420.2

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

Quality Control Section

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORT : SBLK LB1
QAQC# : BB0212WB
INSTR SEQ:
REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR
SAMPLE #: SBLK LB1
LOCATION: LAB QC

PREPARED : 02/12/00
ANALYZED : 02/15/00

DILUTION: 1.00000
MATRIX : W
METHOD : EPA 625M

SEMIVOLATILES

RESULTS REPORTED IN ug/L

PARAMETER	RESULTS		PARAMETER	RESULTS	
2-CHLOROPHENOL	10	U	BENZO(A)ANTHRACENE	10	U
2,4-DICHLOROPHENOL	10	U	BENZO(A)PYRENE	10	U
2,4-DIMETHYLPHENOL	10	U	BENZO(B)FLUORANTHENE	10	U
2,4-DINITROPHENOL	25	U	BENZO(G,H,I)PERYLENE	10	U
4-NITROPHENOL	25	U	BENZO(K)FLUORANTHENE	10	U
2-NITROPHENOL	10	U	CHRYSENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U	DIBENZ(A,H)ANTHRACENE	10	U
PENTACHLOROPHENOL	25	U	FLUORANTHENE	10	U
PHENOL	10	U	FLUORENE	10	U
2,4,6-TRICHLOROPHENOL	10	U	INDENO(1,2,3-CD)PYRENE	10	U
ACENAPHTHENE	10	U	NAPHTHALENE	10	U
ACENAPHTHYLENE	10	U	PHENANTHRENE	10	U
ANTHRACENE	10	U	PYRENE	10	U

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(35-114)	97%	2-FLUOROPHENOL	(21-100)	64%
2-FLUOROBIPHENYL	(43-116)	95%	PHENOL-D5	(10- 94)	81%
TERPHENYL-D14	(33-141)	110%	2,4,6-TRIBROMOPHENOL	(10-123)	68%

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR

MATRIX : W

PREPARED 02/12/00

LAB ID	QC BATCH	ANALYZED
LCS	BB0212WB	02/15/00 13:04
LCSD	BB0212WB	02/15/00 13:41

SEMIVOLATILES
LABORATORY CONTROL SPIKE/SPIKE DUPLICATE RECOVERY

Parameter (ug/L)	SPIKED AMOUNT	SPIKE CONC.	SPIKE %Rec	DUP CONC.	DUP %Rec	RPD	MAX RPD	LIMITS %Rec.
PHENOL	75	56	75	61	81	8	24	10-102
2-CHLOROPHENOL	75	59	79	64	85	8	23	27- 94
1,4-DICHLOROBENZENE	50	39	78	43	86*	10	37	30- 81
N-NITROSO-DI-N-PROPYLAMIN	50	36	72	46	92	24	35	28- 95
1,2,4-TRICHLOROBENZENE	50	42	84	45	90*	7	31	32- 86
4-CHLORO-3-METHYLPHENOL	75	60	80	70	93*	15	22	32- 92
ACENAPHTHENE	50	46	92	49	98*	6	20	41- 93
4-NITROPHENOL	75	53	71	62	83	16	30	10-135
2,4-DINITROTOLUENE	50	36	72	42	84	15	32	39- 94
PENTACHLOROPHENOL	75	64	85	71	95	10	65	10-118
PYRENE	50	48	96	48	96	< 1	23	40-112

QA/QC SURROGATE RECOVERIES

Parameter	SPIKE %Rec	DUP %Rec	Limits
NITROBENZENE-D5	99	100	35-114
2-FLUOROPHENOL	55	64	21-100
2-FLUOROBIPHENYL	102	105	43-116
PHENOL-D5	76	84	10- 94
TERPHENYL-D14	109	112	33-141
2,4,6-TRIBROMOPHENOL	72	79	10-123

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR

MATRIX : W

PREPARED 02/12/00

LAB ID		CLIENT ID	QC BATCH	ANALYZED
42030.01		EFFLUENT WEIR	BB0212WB	02/15/00 14:30
42030.01	MS1	EFFLUENT WEIR	BB0212WB	02/15/00 15:06
42030.01	SD1	EFFLUENT WEIR	BB0212WB	02/15/00 15:42

SEMIVOLATILES
MATRIX SPIKE/SPIKE DUPLICATE RECOVERY

Parameter (ug/L)	SPIKED AMOUNT	SAMP CONC.	SPIKE CONC.	SPIKE %Rec	DUP CONC.	DUP %Rec	RPD	MAX RPD	LIMITS %Rec.
2-CHLOROPHENOL	190	ND	100	56	130	68	20	40	27-123
4-NITROPHENOL	190	ND	130	69	160	87*	23	50	10- 80
4-CHLORO-3-METHYLPHENOL	190	ND	130	71	160	86	19	42	23- 97
PENTACHLOROPHENOL	190	ND	200	105*	230	125*	18	50	9-103
PHENOL	190	1500	2000	278*	2400	510*	19	42	12-110
ACENAPHTHENE	120	600	1000	336*	1100	384*	6	31	46-118
PYRENE	120	390	770	304*	790	320*	2	31	26-127

QA/QC SURROGATE RECOVERIES

Parameter	SAMPLE %Rec	SPIKE %Rec	DUP %Rec	Limits
NITROBENZENE-D5	111	90*	118*	35-114
2-FLUOROPHENOL	54	44	54	21-100
2-FLUOROBIPHENYL	86	92	93	43-116
PHENOL-D5	53	54	63	10- 94
TERPHENYL-D14	100	97	109	33-141
2,4,6-TRIBROMOPHENOL	115	98	108	10-123

* = VALUES OUTSIDE OF QC LIMITS

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORT : 42030.01
QAQC# : BB0212WB
INSTR SEQ:
REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR
LAB# : 42030.01 MS1
SAMPLE #: EFFLUENT WEIR MS1
LOCATION:

SAMPLED : 02/09/00
SUBMITTED: 02/10/00
PREPARED : 02/12/00
ANALYZED : 02/15/00

DILUTION: 1.00000
MATRIX : Water
METHOD : EPA 625M

SEMIVOLATILES

RESULTS REPORTED IN ug/L

PARAMETER	RESULTS		PARAMETER	RESULTS	
2-CHLOROPHENOL	100		BENZO(A)ANTHRACENE	250	E
2,4-DICHLOROPHENOL	25	U	BENZO(A)PYRENE	100	
2,4-DIMETHYLPHENOL	600	E	BENZO(B)FLUORANTHENE	120	
2,4-DINITROPHENOL	62	U	BENZO(G,H,I)PERYLENE	30	
4-NITROPHENOL	130		BENZO(K)FLUORANTHENE	76	
2-NITROPHENOL	25	U	CHRYSENE	220	E
4-CHLORO-3-METHYLPHENOL	130		DIBENZ(A,H)ANTHRACENE	18	J
PENTACHLOROPHENOL	200		FLUORANTHENE	810	E
PHENOL	2000	E	FLUORENE	700	E
2,4,6-TRICHLOROPHENOL	25	U	INDENO(1,2,3-CD)PYRENE	33	
ACENAPHTHENE	1000	E	NAPHTHALENE	1300	E
ACENAPHTHYLENE	36		PHENANTHRENE	1100	E
ANTHRACENE	270	E	PYRENE	770	E

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(35-114)	90%	2-FLUOROPHENOL	(21-100)	44%
2-FLUOROBIPHENYL	(43-116)	92%	PHENOL-D5	(10- 94)	54%
TERPHENYL-D14	(33-141)	97%	2,4,6-TRIBROMOPHENOL	(10-123)	98%

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FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: NICK BOCK

REPORT : 42030.01
QAQC# : BB0212WB
INSTR SEQ:
REPORTED : 02/29/00

PROJECT : EFFLUENT WEIR
LAB# : 42030.01 SD1
SAMPLE #: EFFLUENT WEIR SD1
LOCATION:

SAMPLED : 02/09/00
SUBMITTED: 02/10/00
PREPARED : 02/12/00
ANALYZED : 02/15/00

DILUTION: 1.00000
MATRIX : Water
METHOD : EPA 625M

SEMIVOLATILES

RESULTS REPORTED IN ug/L

PARAMETER	RESULTS		PARAMETER	RESULTS	
2-CHLOROPHENOL	130		BENZO(A)ANTHRACENE	280	E
2,4-DICHLOROPHENOL	25	U	BENZO(A)PYRENE	110	
2,4-DIMETHYLPHENOL	740	E	BENZO(B)FLUORANTHENE	130	
2,4-DINITROPHENOL	62	U	BENZO(G,H,I)PERYLENE	30	
4-NITROPHENOL	160		BENZO(K)FLUORANTHENE	80	
2-NITROPHENOL	25	U	CHRYSENE	240	E
4-CHLORO-3-METHYLPHENOL	160		DIBENZ(A,H)ANTHRACENE	18	J
PENTACHLOROPHENOL	230	E	FLUORANTHENE	830	E
PHENOL	2400	E	FLUORENE	750	E
2,4,6-TRICHLOROPHENOL	25	U	INDENO(1,2,3-CD)PYRENE	33	
ACENAPHTHENE	1100	E	NAPHTHALENE	1600	E
ACENAPHTHYLENE	38		PHENANTHRENE	1100	E
ANTHRACENE	290	E	PYRENE	790	E

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(35-114)	118% *	2-FLUOROPHENOL	(21-100)	54%
2-FLUOROBIPHENYL	(43-116)	93%	PHENOL-D5	(10- 94)	63%
TERPHENYL-D14	(33-141)	109%	2,4,6-TRIBROMOPHENOL	(10-123)	108%

IN128/07-11-97

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

TRACE ICP
INORGANICS QUALITY CONTROL DATA SHEET
LCS/LCSD

MATRIX **WATER**

EPISODE 42030
CLIENT KMFP-COL

UNITS ug/l
BATCHID 000217I1

SAMPLE # METHOD BLANK
SPIKE # LCS
DUPLICATE # LCSD

PARAMETER	TEST CODE	METHOD BLANK AMT. FOUND	METHOD BLANK DET. LIMIT	LCS KNOWN CONC.	LCS AMT. FOUND	LCS %REC. % REC	%REC. LIMITS		LCS FLAG	LCS DUPLICATE AMT. FOUND	LCS DUPLICATE %REC.	LCS DUPLICATE FLAG	RPD RPD	RPD LIMIT	RPD FLAG	DATE ANALYZED	ANALYST INITIALS	INSTR.
Arsenic	MT053	<10.0	10.0	80.0	91.4	114	80	120		92.0	115		0.7	20		20-Feb-2000	SR	ICP#1
Chromium	MT163	<5.0	5.0	200.0	193.0	97	80	120		194.0	97		0.5	20		20-Feb-2000	SR	ICP#1
Copper	MT203	<7.0	7.0	250.0	249.0	100	80	120		249.0	100		0.0	20		20-Feb-2000	SR	ICP#1

NARRATIVE:
* = OUTSIDE QC LIMITS

42030
/TRACELCW REV 4.2
29-Feb-2000 CT

Table No. 2-3

FACIILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - Feb-00

Permit Requirement		O&G		PHENOLS		pH
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	18,556					
2	21,557	8.00		39.85	7.13	7.50
3	22,696					
4	25,865					
5	27,784					
6	24,115					
7	26,683					
8	19,998					
9	24,776					7.40
10	26,520					
11	22,454					
12	28,471					
13	20,365					
14	22,455					
15	24,419					
16	26,220	10.00		3.80	0.83	7.50
17	22,466					
18	25,806					
19	24,540					
20	18,556					
21	14,115					
22	13,225					
23	10,998					7.40
24	11,587					
25	12,003					
26	10,998					
27	11,774					
28	12,741					
29	21,556					
30						
31						
Avg.	**20,459**	**9.00**		**21.83**	**3.98**	**7.45**
Max.	**28,471**	**10.00**		**39.85**	**7.13**	**7.50**
Min.	**10,998**	**8.00**		**3.80**	**0.83**	**7.40**

Table No. 2-3 **FACIILITY DISCHARGE MONITORING RECORD**

KMCC-FPD Facility - Columbus, MS
Month/Year - Feb-00 (Page 1 of 1)

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	18,556					
2	21,557	8.00		39.85	7.13	7.50
3	22,696					
4	25,865					
5	27,784					
6	24,115					
7	26,683					
8	19,998					
9	24,776					7.40
10	26,520					
11	22,454					
12	28,471					
13	20,365					
14	22,455					
15	24,419					
16	26,220	10.00		3.80	0.83	7.50
17	22,466					
18	25,806					
19	24,540					
20	18,556					
21	14,115					
22	13,225					
23	10,998					7.40
24	11,587					
25	12,003					
26	10,998					
27	11,774					
28	12,741					
29	21,556					
30						
31						
Avg.	**20,459**	**9.00**		**21.83**	**3.98**	**7.45**
Max.	**28,471**	**10.00**		**39.85**	**7.13**	**7.50**
Min.	**10,998**	**8.00**		**3.80**	**0.83**	**7.40**

Table No. 2-3

FACIILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - Jan-00

Permit Requirement		O&G		PHENOLS		pH
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	19,955					
2	18,995					
3	19,995					
4	21,558					
5	26,892	9.00		3.75	0.84	7.10
6	24,882					
7	30,551					
8	24,897					
9	31,257					
10	24,996					
11	28,447					
12	26,887					7.20
13	31,220					
14	21,254					
15	24,887					
16	26,991					
17	24,785					
18	27,458					
19	28,556	9.00		30.20	7.16	7.10
20	23,652					
21	28,997					
22	21,221					
23	20,339					
24	24,014					
25	20,369					
26	20,047					7.10
27	25,541					
28	20,361					
29	22,555					
30	19,885					
31	22,477					
Avg.	**24,320**	**9.00**		**16.98**	**4.00**	**7.13**
Max.	**31,257**	**9.00**		**30.20**	**7.16**	**7.20**
Min.	**18,995**	**9.00**		**3.75**	**0.84**	**7.10**

Table No. 2-3

FACIILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - Jan-00

Permit Requirement		O&G		PHENOLS		pH
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	19,955					
2	18,995					
3	19,995					
4	21,558					
5	26,892	9.00		3.75	0.84	7.10
6	24,882					
7	30,551					
8	24,897					
9	31,257					
10	24,996					
11	28,447					
12	26,887					7.20
13	31,220					
14	21,254					
15	24,887					
16	26,991					
17	24,785					
18	27,458					
19	28,556	9.00		30.20	7.16	7.10
20	23,652					
21	28,997					
22	21,221					
23	20,339					
24	24,014					
25	20,369					
26	20,047					7.10
27	25,541					
28	20,361					
29	22,555					
30	19,885					
31	22,477					
Avg.	**24,320**	**9.00**		**16.98**	**4.00**	**7.13**
Max.	**31,257**	**9.00**		**30.20**	**7.16**	**7.20**
Min.	**18,995**	**9.00**		**3.75**	**0.84**	**7.10**

Table No. 2-3

FACIILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - Dec-99

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	21,775					6.20
2	23,956					
3	28,554					
4	20,113					
5	22,115					
6	20,336					
7	19,856					
8	19,774	11.00		21.75	3.57	6.80
9	20,110					
10	17,458					
11	16,958					
12	19,956					
13	20,111					
14	19,023					
15	20,117					7.10
16	18,544					
17	22,033					
18	20,114					
19	20,009					
20	18,556					
21	16,774					
22	24,033	8.00		0.013	0.0026	6.90
23	18,556					
24	14,441					
25	13,552					
26	12,454					
27	15,662					
28	17,441					
29	12,014					7.10
30	16,899					
31	18,511					
Avg.	**19,026**	**9.50**		**10.88**	**1.79**	**6.82**
Max.	**28,554**	**11.00**		**21.75**	**3.57**	**7.10**
Min.	**12,014**	**8.00**		**0.01**	**0.00**	**6.20**

Table No. 2-3

FACILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - Nov-99

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	28,551					
2	22,694					
3	28,667	10.00		6.95	1.65	6.80
4	24,556					
5	20,145					
6	24,564					
7	22,336					
8	24,789					
9	26,569					
10	21,452	11.00		24.40	4.35	6.50
11	20,345					
12	24,458					
13	27,110					
14	20,339					
15	22,114					
16	22,585					
17	20,377					6.90
18	21,005					
19	24,566					
20	15,669					
21	14,778					
22	11,859					
23	17,854					
24	11,454	10.00		1.70	0.16	6.90
25	12,336					
26	13,325					
27	14,787					
28	11,008					
29	22,779					
30	26,585					
31						
Avg.	20,655	10.33		11.02	2.05	6.78
Max.	28,667	11.00		24.40	4.35	6.90
Min.	11,008	10.00		1.70	0.16	6.50

Table No. 2-3 **FACIILITY DISCHARGE MONITORING RECORD**

KMCC-FPD Facility - Columbus, MS
Month/Year - Oct-99

Permit Requirement		O&G		PHENOLS		pH
Unit of Measurement		XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	27,445					
2	26,221					
3	22,113					
4	20,889					
5	24,115					
6	24,789	14.00		13.45	2.77	6.70
7	20,369					
8	25,478					
9	20,122					
10	22,355					
11	24,547					
12	24,156					
13	25,789					6.80
14	20,100					
15	20,362					
16	20,145					
17	22,887					
18	24,658					
19	23,963					
20	28,777	19.00		12.30	2.94	6.50
21	20,129					
22	23,456					
23	24,521					
24	20,036					
25	24,888					
26	20,178					
27	25,885					6.60
28	24,501					
29	28,555					
30	24,550					
31	20,385					
Avg.	**23,431**	**16.50**		**12.88**	**2.85**	**6.65**
Max.	**28,777**	**19.00**		**13.45**	**2.94**	**6.80**
Min.	**20,036**	**14.00**		**12.30**	**2.77**	**6.50**

Table No. 2-3

FACIILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - Sep-99

Permit Requirement		O&G		PHENOLS		pH
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	21,155					6.80
2	20,336					
3	25,514					
4	24,614					
5	23,178					
6	22,988					
7	20,378					
8	21,599	17.00		37.80	6.78	6.70
9	24,658					
10	21,478					
11	25,252					
12	22,331					
13	24,110					
14	20,094					
15	28,112					6.50
16	20,654					
17	25,456					
18	27,745					
19	20,001					
20	23,699					
21	24,118					
22	20,778	8.00		3.95	0.68	6.60
23	24,555					
24	20,100					
25	24,661					
26	26,188					
27	24,551					
28	21,477					
29	22,469					6.80
30	27,489					
31						
Avg.	**23,325**	**12.50**		**20.88**	**3.73**	**6.68**
Max.	**28,112**	**17.00**		**37.80**	**6.78**	**6.80**
Min.	**20,001**	**8.00**		**3.95**	**0.68**	**6.50**

Table No. 2-3 **FACIILITY DISCHARGE MONITORING RECORD**

KMCC-FPD Facility - Columbus, MS
Month/Year - Aug-99

Permit Requirement		O&G		PHENOLS		pH
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	**FLOW**	**mg/1**	**lbs.**	**mg/1**	**lbs.**	**SU**
1	20.115					
2	19,956					
3	22,337					
4	24,561					6.10
5	20,145					
6	22,888					
7	20,177					
8	23,698					
9	26,852					
10	21,114					
11	22,477	13.00		7.95	1.48	6.70
12	25,012					
13	20,361					
14	24,741					
15	20,088					
16	20,456					
17	23,996					
18	24,778					6.30
19	22,451					
20	20,367					
21	22,111					
22	27,455					
23	22,444					
24	20,304					
25	27,410	11.00		6.50	1.48	6.40
26	20,099					
27	24,578					
28	25,454					
29	22,224					
30	26,551					
31	24,141					
Avg.	**22,882**	**12.00**		**7.23**	**1.48**	**6.38**
Max.	**27,455**	**13.00**		**7.95**	**1.48**	**6.70**
Min.	**19,956**	**11.00**		**6.50**	**1.48**	**6.10**

Table No. 2-3 **FACIILITY DISCHARGE MONITORING RECORD**

KMCC-FPD Facility - Columbus, MS
Month/Year - Jul-99 (Page 1 of 1)

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	22,566					
2	24,516					
3	20,117					
4	23,625					
5	27,899					
6	19,845					
7	22,333					6.50
8	24,115					
9	20,617					
10	20,879					
11	22,477					
12	20,159					
13	23,995					
14	24,654	9.00		6.65	1.36	6.20
15	27,415					
16	20,364					
17	22,227					
18	20,009					
19	19,987					
20	27,410					
21	22,012					6.30
22	20,366					
23	20,048					
24	29,007					
25	24,555					
26	21,545					
27	23,315					
28	22,001	13.00		10.65	1.95	7.90
29	25,454					
30	23,661					
31	22,118					
Avg.	**22,880**	**11.00**		**8.65**	**1.65**	**6.73**
Max.	**29,007**	**13.00**		**10.65**	**1.95**	**7.90**
Min.	**19,845**	**9.00**		**6.65**	**1.36**	**6.20**

Table No. 2-3

FACIILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - Jul-99

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	25,514					
2	20,115	17.00		16.1	2.69	6.80
3	24,119					
4	21,336					
5	28,456					
6	27,441					
7	20,665					
8	22,784					
9	20,156					6.20
10	21,458					
11	27,514					
12	19,995					
13	23,347					
14	20,111					
15	19,977					
16	21,136	8.00		24.85	4.36	6.30
17	20,555					
18	20,410					
19	22,983					
20	21,212					
21	21,588					
22	22,668					
23	27,550					6.40
24	26,558					
25	24,514					
26	24,744					
27	21,366					
28	24,518					
29	26,112					
30	20,113	13.00		9.45	1.58	6.20
31						
Avg.	**22,967**	**12.67**		**16.80**	**2.88**	**6.38**
Max.	**28,456**	**17.00**		**24.85**	**4.36**	**6.80**
Min.	**19,977**	**8.00**		**9.45**	**1.58**	**6.20**

Table No. 2-3

FACIILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - May-99

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	27,756					
2	22,455					
3	21,066					
4	28,954					
5	19,866					7.50
6	22,558					
7	24,621					
8	20,387					
9	20,156					
10	22,888					
11	25,577					
12	20,699	17.00		20.70	3.56	6.90
13	27,568					
14	29,001					
15	19,966					
16	22,555					
17	20,312					
18	24,515					
19	20,456	9.00		16.90	2.87	6.20
20	27,455					
21	22,699					
22	27,511					
23	20,145					
24	22,111					
25	20,369					
26	22,008					6.40
27	25,587					
28	24,569					
29	24,569					
30	24,111					
31	25,157					
Avg.	**23,472**	**13.00**		**18.80**	**3.21**	**6.75**
Max.	**29,001**	**17.00**		**20.70**	**3.56**	**7.50**
Min.	**19,866**	**9.00**		**16.90**	**2.87**	**6.20**

Table No. 2-3

FACIILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - Apr-99

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	26,225					
2	24,569					
3	20,136					
4	24,111					
5	25,245					
6	20,116					
7	21,339					6.60
8	19,985					
9	20,145					
10	24,116					
11	20,387					
12	21,103					
13	22,855					
14	26,118	7.00		13.45	2.92	6.30
15	20,125					
16	22,447					
17	25,632					
18	21,145					
19	20,339					
20	30,110					
21	24,698					6.00
22	27,514					
23	20,338					
24	31,145					
25	25,263					
26	20,156					
27	25,625					
28	21,222	8.00		25.25	4.45	6.40
29	24,551					
30	20,125					
31						
Avg.	**23,230**	**7.50**		**19.35**	**3.68**	**6.33**
Max.	**31,145**	**8.00**		**25.25**	**4.45**	**6.60**
Min.	**19,985**	**7.00**		**13.45**	**2.92**	**6.00**

Table No. 2-3

FACIILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - Mar-99

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	27,862					
2	25,112					
3	24,699	6.00		7.00	1.44	6.40
4	20,334					
5	27,899					
6	24,697					
7	28,110					
8	30,008					
9	31,556					
10	24,889					6.00
11	19,978					
12	26,545					
13	18,556					
14	22,331					
15	24,589					
16	20,337					
17	25,490	7.00		6.90	1.46	6.20
18	24,168					
19	24,896					
20	20,045					
21	23,569					
22	16,895					
23	30,117					
24	25,455					6.30
25	20,004					
26	24,892					
27	23,964					
28	20,145					
29	22,858					
30	24,566					
31	26,689	9.00		7.25	1.61	6.90
Avg.	**24,234**	**7.33**		**7.05**	**1.50**	**6.36**
Max.	**31,556**	**9.00**		**7.25**	**1.61**	**6.90**
Min.	**16,895**	**6.00**		**6.90**	**1.44**	**6.00**

Table No. 2-3

FACIILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - Feb-99

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	29,566					
2	25,789					
3	20,336					6.30
4	24,781					
5	24,621					
6	20,399					
7	28,751					
8	26,952					
9	25,469					
10	23,855	8.00		5.40	1.07	6.30
11	30,114					
12	27,445					
13	20,113					
14	22,561					
15	27,892					
16	19,566					
17	24,870					6.80
18	20,006					
19	24,562					
20	21,212					
21	20,154					
22	30,558	7.00	Split w/ MSDEQ	16.40	4.16	
23	31,224					
24	28,550	9.00		18.65	4.42	6.50
25	22,015					
26	24,560					
27	24,562					
28	22,078					
29						
30						
31						
Avg.	**24,734**	**8.00**		**13.48**	**3.22**	**6.48**
Max.	**31,224**	**9.00**		**18.65**	**4.42**	**6.80**
Min.	**19,566**	**7.00**		**5.40**	**1.07**	**6.30**

BUREAU OF POLLUTION CONTROL
SAMPLE REQUEST FORM

Lab Bench No. _____

I. GENERAL INFORMATION: Facility Name Kerr-McGee Chemical

County Code Lowndes 087 NPDES Permit No. 90021

Discharge No. 001 Date Requested Feb 99

Sample Point Identification Process Wastewater

Requested By Compliance Monitoring Data To Kirk Shelton

Type of Sample: Grab (X) Composite (Flow) (Time) Other ( )

II. SAMPLE IDENTIFICATION:

Environment Condition Overcast & Cold Collected By Dewitt Spurgeon

Where Taken Effluent Structure

	Type	Parameters	Preservative	Date	Time
1.	Grab	Cr, Cu, As	HNO_3	2-22-99	1530
2.	Grab	Oil & Grease	H_2SO_4	2-22-99	1530
3.	Grab	Phenol	H_2SO_4	2-22-99	1530
4.	Grab	Pentachlorophenol	Cool	2-22-99	1530
5.					

III. FIELD:

Analysis	Computer Code	Request	Results	Analyst	Date
pH	(000400)	(X)	7.11	DS	2-22-99
D.O.	(000300)	( )			
Temperature	(000010)	( )			
Residual Chlorine	(050060)	( )			
Flow	(074060)	(X)	.02468 MGD	DS	2-22-99

IV. TRANSPORTATION OF SAMPLE: Bus ( ) POV Vehicle ( ) Other (X) Pony Express

V. LABORATORY: Received By Debi Clark Date 2-24-99 Time 0900

Recorded By _____ Date Sent to State Office _____

Analysis	Computer Code	Request	Result		Analyst	Date Measured
BOD5	(000310)	( )		mg/l		*
COD	(000340)	( )		mg/l		
TOC	(000680)	( )		mg/l		
Suspended Solids	(099000)	( )		mg/l		
TKN	(000625)	( )		mg/l		
Ammonia-N	(000610)	( )		mg/l		
Fecal Coliform(1)	(074055)	( )		colonies/100 ml		*
Fecal Coliform(2)	(074055)	( )		colonies/100 ml		*
Total Phosphorus	(000665)	( )		mg/l		
Oil and Grease(1)	(000550)	(X)	54.0	mg/l	VS	2-25-99
Oil and Grease(2)	(000550)	( )		mg/l		
Chlorides	(099016)	( )		mg/l		
Phenol	(032730)	(X)	7.44	mg/l	KF	3-2-99
Total Chromium	(001034)	( )		mg/l		
Hex. Chromium	(001032)	( )		mg/l		
Zinc	(001092)	( )		mg/l		
Copper	(001042)	( )		mg/l		
Lead	(017501)	( )		mg/l		
Cyanide	(000722)	( )		mg/l		
		( )				
		( )				
		( )				
		( )				
		( )				
		( )				
		( )				
		( )				
		( )				
		( )				

Remarks 5700

*Date of Test Initiation A.N. Helms Plant Mang. 573

BUREAU OF POLLUTION CONTROL
SAMPLE REQUEST FORM

Lab Bench No.: 573
Cost Code: 3700

I. GENERAL INFORMATION:
Facility Name: Kerr-McGee
County Code: Lowndes 087
Discharge No: 001
Sample Point Identification: Process Wastewater
Requested By: Compliance Monitoring
Type of Sample: Grab:(X) Composite: Flow: Time: Other:

NPDES Permit No.: 90021
Date Requested: 2-99

Data To: Kirk Shelton

II. SAMPLE IDENTIFICATION:
Environment Condition: Overcast & Cold
Where Taken: Effluent Structure

Collected By: D. Spurgeon

	Type	Parameters	Preservative	Date	Time
1.	Grab	Cr, Cu, As	HNO_3	2-22-99	1530
2.	Grab	O & G	H_2SO_4	2-22-99	1530
3.	Grab	Phenol	H_2SO_4	2-22-99	1530
4.	Grab	Pentachlorophenol	Cool	2-22-99	1530
5.					
6.					

III. FIELD:

Analysis	Computer Code	Req	Results	Analyst	Date
pH	000400	X	7.11	DS	2-22-99
D.O.	000300				
Temperature	000010				
ResidualChlorine	050060				
Flow	074060	X	.02468 mg/l	DS	2-22-99

IV. TRANSPORTATION OF SAMPLE:
Bus: **RO Vehicle:** **Other: (X) Pony Express**

V. LABORATORY:
Received by: Otis Clark **Date: 2/24/99** **Time:0900**
Recorded by: Tammy Sawyer **Date Sent to State Office:** 4-15-99

VI. Remarks: A. N. Helms Plant Mang.

WET CHEMISTRY PARAMETERS

Lab Bench No.: 0573

Analysis	Computer Req Code		Result		Analyst	Date Measured or Date Test Initiated
BOD	000310			mg/l		
COD	000340			mg/l		
TOC	000680			mg/l		
Suspended Solids	099000			mg/l		
TKN	000625			mg/l		
Ammonia-N	000610			mg/l		
Fecal Coliform	074055			colonies/100ml		
Total Phosphorous	000665			mg/l		
Oil & Grease	000550	X	54.0	mg/l	VS	2-25-99
Chlorides	099016			mg/l		
Phenol	032730	X	7.44	mg/l	KF	3-2-99
Cyanide	000722			mg/l		
Nitrate-Nitrite	000630			mg/l		
Alkalinity	000410			mg/l		
Hardness	000900			mg/l		

+++

INORGANICS REPOR
WATER

SAMPLE No.: 573

ANALYSES: _____ **DATE COLLECTED:** _____

PARAMETER	CONC. ug/l	MQL ug/l	QC %Rec.	Analyst	Date
Arsenic	22.0	5.0	104	JC	3-12-99
Chromium	ND	1.0	102	JC	3-12-99
Copper	ND	5.0	104	JC	3-12-99

MQL = minimum quantifiable levels
QC %Rec = percent recovery of quality control standard

Sample # 573

Tentatively Identified Compounds

Compound	Estimated Concentration (ug/L)
1) 2,6-dimethyl Pyridine	988
2) 2,4-dimethyl Pyridine	2850
3) Aniline	1890
4) Benzofuran	1190
5) Indane	3970
6) Indene	5370
7) Biphenyl	1120

Sample # 573

Tentatively Identified Compounds

Compound	Estimated Concentration (ug/L)
1) 2,6-dimethyl Pyridine	988
2) 2,4-dimethyl Pyridine	2850
3) Aniline	1890
4) Benzofuran	1190
5) Indane	3970
6) Indene	5370
7) Biphenyl	1120

Sample # Blank (Ex99-035)

Tentatively Identified Compounds

Compound	Estimated Concentration (ug/L)
1) Tetrahydro-4H-Pyran-4-one	13.0
2) Dihydro-5-propyl-2(3H)-Furanone	61.4
3) 4-oxo-Pentanoic acid, methyl ester	45.8

Sample # Blank (Ex99-035)

Tentatively Identified Compounds

Compound	Estimated Concentration (ug/L)
1) Tetrahydro-4H-Pyran-4-one	13.0
2) Dihydro-5-propyl-2(3H)-Furanone	61.4
3) 4-oxo-Pentanoic acid, methyl ester	45.8

TARGET COMPOUND LIST
SEMIVOLATILE ORGANIC COMPOUNDS
IN WATER

OPCL NO.: 573 MARKED: Kerr-Magee Chemical

ANALYSIS OF: Water DATE RECEIVED: 2-24-99

COMPOUNDS	MQL	µg/L	COMPOUNDS	MQL	µg/L	COMPOUNDS	MQL	µg/L
Phenol	10	*3200	4-Chloro-3-methylphenol	20	ND	Hexachlorobenzene	10	ND
bis(2-Chloroethyl)ether	10	ND	2-Methylnaphthalene	10	*3750	Pentachloropohenol	50	ND
2-Chlorophenol	10	ND	Hexachlorocyclopentadiene	10	ND	Phenanthrene	10	ND
1,3-Dichlorobenzene	10	ND	2,4,6-Trichlorophenol	10	ND	Anthracene	10	ND
1,4-Dichlorobenzene	10	ND	2,4,5-Trichlorophenol	10	ND	Di-n-butylphthalate	10	ND
Benzyl alcohol	20	ND	2-Chloronaphthalene	10	ND	Fluoranthene	10	ND
1,2-Dichlorobenzene	10	ND	2-Nitroaniline	50	ND	Pyrene	10	ND
2-Methylphenol	10	1650	Dimethylphthalate	10	ND	Butylbenzylphthalate	10	ND
bis(2-Chloroisopropyl)ether	10	ND	Acenaphtylene	10	ND	3,3'Dichlorobenzidine	50	ND
4-Methylphenol	10	*3060	2,6-Dinitrotoluene	10	ND	Benzo(a)anthracene	10	ND
N-Nitroso-di-n-propylamine	20	ND	3-Nitroaniline	50	ND	Chrysene	10	ND
Hexachloroethane	20	ND	Acenaphthene	10	110	bis(2-Ethylhexyl)phthalate	10	ND
Nitrobenzene	10	ND	2,4-Dinitrophenol	50	ND	Di-n-octylphthalate	10	ND
Isophorone	10	ND	4-Nitrophenol	50	ND	Benzo(b)fluoranthene	10	ND
2-Nitrophenol	20	ND	Dibenzofuran	10	1720	Benzo(k)fluoranthene	10	ND
2,4-Dimethylphenol	10	466	2,4-Dinitrotoluene	10	ND	Benzo(a)pyrene	10	ND
Benzoic acid	50	ND	Diethylphthalate	10	ND	Indeno(1,2,3-cd)pyrene	20	ND
bis(2-Chloroethoxy)methane	10	ND	4-Chlorophenyl-phenylether	10	ND	Dibenz(a,h)anthracene	20	ND
2,4-Dichlorophenol	10	ND	Fluorene	10	1860	Benzo(g,h,i)perylene	20	ND
1,2,4-Trichlorobenzene	10	ND	4-Nitroaniline	50	ND			
Naphthalene	10	*6510	4,6-Dinitro-2-methylphenol	50	ND			
4-Chloroaniline	20	ND	N-nitrosodiphenylamine	20	ND			
Hexachlorobutadiene	10	ND	4-Bromophenyl-phenylether	10	ND			

SURROGATES	RECOVERY (%)	LIMITS
2-Fluorophenol	79	21-100
Phenol-d5	96	10-194
Nitrobenzene-d5	68	35-114
2-Fluorobiphenyl	43	43-116
2,4,6-Tribromophenol	87	10-123
p-Terphenyl-d14	34	33-141

Date Extracted: 3 / 1 / 1999
Date Injected: 3 / 29 / 1999
ND = None Detected
MQL = Minimum Quantifiable Level
Analyst: Jon Shell

Lower Detection Level = MQL X 10 = 100, etc. µg/L

__ No peaks above 40% of internal standard.
__ Peaks above 40% of internal standard on EPA Appendx IX were identified.*
__ Peaks above 40% of internal standard not on EPA Appendix IX.**
__ Peaks above 40% of internal standard not on EPA Appendix IX were not identified.
__ Additional peaks were observed, but not examined.

COMMENTS: * Instrumental value exceeds the highest point on the calibration curve and is therefore being reported as a "approximate" value.

Table No. 2-3

FACILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS
Month/Year - Jan-99

		O&G		PHENOLS		pH
Permit Requirement						
Unit of Measurement		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	23,566					
2	28,596					
3	25,784					
4	19,864					
5	30,112					
6	28,994					6.70
7	31,005					
8	24,557					
9	26,118					
10	24,569					
11	26,334					
12	24,625					
13	28,114	6.00		24.90	5.81	6.20
14	20,045					
15	26,389					
16	27,456					
17	21,034					
18	20,169					
19	27,851					
20	20,145					6.40
21	23,699					
22	24,225					
23	19,899					
24	16,789					
25	24,566					
26	25,695					
27	24,891	8.00		6.45	1.33	6.40
28	24,558					
29	23,569					
30	27,888					
31	24,781					
Avg.	**24,706**	**7.00**		**15.68**	**3.57**	**6.43**
Max.	**31,005**	**8.00**		**24.90**	**5.81**	**6.70**
Min.	**16,789**	**6.00**		**6.45**	**1.33**	**6.20**

United States Environmental Protection Agency, Washington, D.C., 20

EPA NPDES Compliance Inspection Report

Form Approved
OMB No.2040-0003
Approval Expires 7-31-85

Section A: National Data System Coding

Transaction Code	NPDES	YR/MO/DAY	Inspection Type	Inspector	Facility Type	Sched'd
N	MSP090021	99/06/16	3	S	2	NA

Reserved	Facility Evaluation Rating	BI	QA	Reserved
	3	N	N	

Section B: Facility Data

Name and Location of Facility Inspected
Kerr-McGee Chemical Corporation
2300 14th Avenue
Columbus Mississippi 30703

Entry Time: 8:30 a.m.
Exit Time/Date: 6:00 p.m.
Permit Effective Date: Oct. 11,1994
Permit Expiration Date: Oct. 10, 1999

Name(s) of On-Site Representative(s)	Title(s)	Phone No(s)
Mr. Ron Murphey Mr. Chuck Swann	Plant Manager Environmental Supervisor	601-328-7551

Name,Address of Responsible Official
Mr. Ron Murphey
Kerr-McGee Chemical Corporation
P.O. Box 906
Columbus, MS 39703

Title: Plant Manager

Phone No.: 601-328-7551
Contacted: YES NO

Section C: Areas Evaluated During Inspection (S-Satisfactory, M-Marginal, U-Unsatisfactory, N-Not Evaluated)

S Permit	N Flow Measurement	N Pretreatment
S Operations & Maintenance	S Records/Reports	N Laboratory
N Compliance Schedules	N Sludge Disposal	S Facility Site Review
N Effluent/Receiving Waters	N Self-Monitoring Program	N Other

Section D: Summary of Findings/Comments

1. Facility site review was performed and no noncompliant wastewater discharges were noted during walk around. Facility wastewater discharges are sent to the City of Columbus POTW.
2. The facility had a copy of the current pretreatment permit.
3. Pretreatment records were reviewed. Facility maintains Discharge Monitoring Reports (DMRs) onsite for three years as required. The facility performs sampling events as specified in the pretreatment permit. The facility maintains calibration records. The facility has correctly reporting laboratory analytical results from sampling events in the DMRs.
4. Wastewater operations appeared sufficient.
5. No problems were noted during the pretreatment review.

Names and Signatures of Inspectors	Agency/Office/Telephone	Date
[signature]	Office of Pollution Control/601-961-5171	10-27-99

Signature of Reviewer	Agency/Office	Date
[signature]	Office of Pollution Control	10/27/99

Regulatory Office Use Only

Action Taken	Date	
Report transmitted to permittee.		☐ Noncompliance ☐ Compliance

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701

FACILITY LOWNDES COUNTY
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY PLANT MANAGER

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

MSP090021	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	01	12	01	TO	01	12	31

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER
*** NO DISCHARGE | | ***

RECEIVED
JAN 25 2001

TIME

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	Quality or Concentration MINIMUM	Quality or Concentration AVERAGE	Quality or Concentration MAXIMUM	Quality or Concentration UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		6.6	******	6.9	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALU	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
& GREASE (FREON EXTR.-IR METH) TOT, R	SAMPLE MEASUREMENT	******	******		******	7.5	8	(19)	0	2/31	GRAB
00560 1 0 0 EFFLUENT GROSS VALU	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	1.57	2.80	(26)	******	6.68	11.25	(19)	0	2/31	GRAB
46000 1 0 0 EFFLUENT GROSS VALU	PERMIT REQUIREMENT	28.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******		(03)	******	******	******		0	7/7	CONTIN
50050 1 0 0 EFFLUENT GROSS VALU	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
CHARLES SWANN / ASST PLT MGR
TYPED OR PRINTED

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, 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.

Charles J Swann
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY
662	328-7551	02	01	18

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*

NAME: KERR-MCGEE (COLUMBUS)

ADDRESS: 2300 14TH AVENUE N
COLUMBUS MS 39701

FACILITY: LOWNDES COUNTY

LOCATION: COLUMBUS MS 39701

ATTN: R P MURPHEY PLANT MANAGER

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

MSP090021	001 Y
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD: FROM YEAR 01 MO 01 DAY 01 TO YEAR 01 MO 12 DAY 31

MINOR
(SUBR NO)
F - FINAL
PROCESS WASTEWATER
TIM

*** NO DISCHARGE | | ***

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	Quality or Concentration MINIMUM	Quality or Concentration AVERAGE	Quality or Concentration MAXIMUM	Quality or Concentration UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
ARSENIC, TOTAL RECOVERABLE 00978 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	0.00295	(26)	******	0.00725	0.0145	(19)	0	2/365	COMP
	PERMIT REQUIREMENT	******	1.28 ANNL MAX	LBS/DY	******	REPORT ANNL AVG	2.36 ANNL MAX	MG/L		SEMI-ANNUAL	COMPOS
CADMIUM TOTAL RECOVERABLE 01118 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	0 ND	(26)	******	ND	ND	(19)	0	2/365	COMP
	PERMIT REQUIREMENT	******	1.28 ANNL MAX	LBS/DY	******	REPORT ANNL AVG	2.36 ANNL MAX	MG/L		SEMI-ANNUAL	COMPOS
COPPER TOTAL RECOVERABLE 01119 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	0.004	(26)	******	0.0078	0.0156	(19)	0	2/365	COMP
	PERMIT REQUIREMENT	******	1.60 ANNL MAX	LBS/DY	******	REPORT ANNL AVG	2.95 ANNL MAX	MG/L		SEMI-ANNUAL	COMPOS
PENTACHLOROPHENOL 39032 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.0011	0.0043	(26)	******	0.00425	0.017	(19)	0	4/365	GRAB
	PERMIT REQUIREMENT	0.65 ANNL AVG	0.98 ANNL MAX	LBS/DY	******	1.19 ANNL AVG	1.79 ANNL MAX	MG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

CHARLES SWANN / ASST. PLT. MGR.

TYPED OR PRINTED

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Charles J Swann

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE	NUMBER
662	328-7551

DATE

YEAR	MO	DAY
02	01	21

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

COMPOSITE SAMPLES SHOULD CONSIST OF MANUAL GRAB SAMPLES OF EQUAL ALIQUOT VOLUMES TAKEN EVERY FOUR HOURS FOR THE DURATION OF THE DISCHARGE DURING THE 24-HOUR PERIOD.

ND = NON-DETECTABLE

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location (f Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701

FACILITY LOWNDES COUNTY
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY PLANT MANAGER

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

MSP090021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	01	11	01	TO	01	11	30

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER TIMBI
*** NO DISCHARGE ***

RECEIVED
DEC 19 2001
DEQ-ECED

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	Quality or Concentration MINIMUM	Quality or Concentration AVERAGE	Quality or Concentration MAXIMUM	Quality or Concentration UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH 00400 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	******		5.6	******	6.6	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
[redacted] & GREASE (FREON R. -IR METH) TOT, RE 00560 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	******		******	8.5	9.0	(19)	0	2/30	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS 46000 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	4.33	6.42	(26)	******	19.88	30.10	(19)	0	2/30	GRAB
	PERMIT REQUIREMENT	28.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLAN 50050 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	0.031	(03)	******	******	******		0	7/7	CONTIN
	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
[redacted]	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
CHARLES SWANN / ASST. PLT. MGR
TYPED OR PRINTED

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Charles Swann
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE
AREA CODE: 662
NUMBER: 328-7551

DATE
YEAR: 01
MO: 12
DAY: 16

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

LOWNDES CO., WATER, PRETREAT, CLH

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701

FACILITY LOWNDES COUNTY
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY PLANT MANAGER

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

MSP090021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR 01 MO 10 DAY 01 TO YEAR 01 MO 10 DAY 31

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER
TIMBI

*** NO DISCHARGE [ ] ***

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	Quality or Concentration MINIMUM	Quality or Concentration AVERAGE	Quality or Concentration MAXIMUM	Quality or Concentration UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH 00400 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	******		6.4	******	6.8	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
& GREASE (FREON R.-IR METH) TOT, R 00560 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	******		******	8	8	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS 46000 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	3.99	5.21	(26)	******	20.23	25.30	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	28.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLAN 50050 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	0.032	(03)	******	******	******		0	7/7	CONT,
	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
CHARLES SWANN / ASST. PLT. MGR
TYPED OR PRINTED

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Charles Swann
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE 662 NUMBER 328-7551

DATE YEAR 01 MO 11 DAY 26

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*

NAME KERR-MCGEE (COLUMBUS)

ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701

FACILITY LOWNDES COUNTY

LOCATION COLUMBUS MS 39701

ATTN: R P MURPHEY PLANT MANAGER

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

MSP090021 — **PERMIT NUMBER**

001 A — **DISCHARGE NUMBER**

	MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM	01	09	01	TO	01	09	30

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER TIMB

*** NO DISCHARGE | | ***

NOTE: Read instructions before completing this form.

RECEIVED OCT 31 2001

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		6.4	******	7.5	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METH)TOT,REC	SAMPLE MEASUREMENT	******	******		******	9.0	9.0	(19)	0	2/30	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	0.93	1.75	(26)	******	4.13	7.70	(19)	0	2/30	GRAB
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	28.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.033	(03)	******	******	******		0	30/30	CONTIN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

CHARLES SWANN/ASST. PLT. MGR.

TYPED OR PRINTED

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Charles Swann

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
662	328-7551	01	10	26
AREA CODE	NUMBER	YEAR	MO	DAY

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME KERR-MCGEE (COLUMBUS)

ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701

FACILITY LOWNDES COUNTY

LOCATION COLUMBUS MS 39701

ATTN: R P MURPHEY PLANT MANAGER

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

MSP090021	001 A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	01	08	01	TO	01	08	31

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS & BOILER

*** NO DISCHARGE | ___ ***

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	Quality or Concentration MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		5.5	******	6.9	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
[illegible] & GREASE (FREON EXTR.-IR METH)TOT,REC	SAMPLE MEASUREMENT	******	******		******	9	9	(19)	0	2/31	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	2.28	4.10	(26)	******	9.93	17.95	(19)	0	2/31	GRAB
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	28.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.031	(03)	******	******	******		0	7/7	CONT
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

CHARLES SWANN / ASST. PLT MGR

TYPED OR PRINTED

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Charles J Swann

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
662	328-7551	01	09	28
AREA CODE	NUMBER	YEAR	MO	DAY

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701

FACILITY LOWNDES COUNTY
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY PLANT MANAGER

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

MSP090021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR 01 MO 01 DAY 01 TO YEAR 01 MO 01 DAY 31

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER BLOWDOWN
*** NO DISCHARGE ***
NOTE: Read Instructions before completing this form.

RECEIVED
JUL 28 2001
DEQ-OCD

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	Quality or Concentration MINIMUM	Quality or Concentration AVERAGE	Quality or Concentration MAXIMUM	Quality or Concentration UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		5.8	******	7.4	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	7.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METH) TOT, RE 00560 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	9.5	10	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/MONTH	GRAB
PHENOLS 46000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	3.86	4.56	(26)	******	17.43	19.95	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	28.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	0.031	(03)	******	******	******		0	7/7	CONT
	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
CHARLES SWANN / ASST. PLT. MGR.
TYPED OR PRINTED

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Charles G Swann
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE 662 NUMBER 328-7551

DATE YEAR 01 MO 08 DAY 25

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701

FACILITY LOWNDES COUNTY
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY PLANT MANAGER

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

MSP090021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

MONITORING PERIOD: FROM YEAR 01 MO 06 DAY 01 TO YEAR 01 MO 06 DAY 30

MINOR
(SUBR NO
FINA
PRETREATED PROCESS & BOILER
TIMB
*** NO DISCHARGE ***

RECEIVED
AUG 3 2001
DEQ-ECED

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	Quality or Concentration MINIMUM	Quality or Concentration AVERAGE	Quality or Concentration MAXIMUM	Quality or Concentration UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		5.6	******	7.5	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METH) TOT, RE 00560 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	8.5	9.0	(19)	0	2/30	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS 46000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	1.91	3.04	(26)	******	9.53	14.90	(19)	0	2/30	GRAB
	PERMIT REQUIREMENT	28.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	0.033	(03)	******	******	******		0	30/30	CONTIN-
	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
CHARLES SWANN / ASST. PLT. MGR
TYPED OR PRINTED

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, 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.

Charles Swann
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE 662 NUMBER 328-7551

DATE YEAR 01 MO 07 DAY 26

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

Larry Hamil

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701

FACILITY LOWNDES COUNTY
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY PLANT MANAGER

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

MSP090021 (PERMIT NUMBER) | (DISCHARGE NUMBER)
MINOR (SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER TIMB

RECEIVED JUL 18 2001 DEQ-ECED

RECEIVED JUL 25 2001 DEQ-ECED

MONITORING PERIOD
FROM YEAR 01 MO 02 DAY 01 TO YEAR 01 MO 02 DAY 28

*** NO DISCHARGE | | ***

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	Quality or Concentration MINIMUM	Quality or Concentration AVERAGE	Quality or Concentration MAXIMUM	Quality or Concentration UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		6.4	******	7.6	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METH) TOT, R 00560 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	9	9	(19)	0	2/28	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS 46000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	3.16	3.40	(26)	******	20.35	25.15	(19)	0	2/28	GRAB
	PERMIT REQUIREMENT	28.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******		(03)	******	******	******		0	7/7	CONT
	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Charles Swann / Asst Plt Mgr
TYPED OR PRINTED

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, 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.

Charles Swann
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE 662 NUMBER 328 7551

DATE YEAR 01 MO 03 DAY 28

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701

FACILITY LOWNDES COUNTY
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY PLANT MANAGER

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

MSP090021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR 01 MO 05 DAY 01 TO YEAR 01 MO 05 DAY 31

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER

*** NO DISCHARGE | | ***

RECEIVED
JUL - 3 2001

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	Quality or Concentration MINIMUM	Quality or Concentration AVERAGE	Quality or Concentration MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		6.0	******	7.5	(12)	0	1/7	GRAB
00400 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	******		******	10	11	(19)	0	2/31	GRAB
OIL & GREASE (FREON	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/MONTH	GRAB
EXTR.--IR METH) TOT. R	SAMPLE MEASUREMENT	2.09	3.03	(26)	******	10.33	14.75	(19)	0	2/31	GRAB
00560 1 0 0	PERMIT REQUIREMENT	28.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/MONTH	GRAB
EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	0.034	(03)	******	******	******		0	7/7	CONTIN
PHENOLS	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
46000 1 0 0	SAMPLE MEASUREMENT										
EFFLUENT GROSS VALU	PERMIT REQUIREMENT										
FLOW, IN CONDUIT OR	SAMPLE MEASUREMENT										
THRU TREATMENT PLAN	PERMIT REQUIREMENT										
50050 1 0 0	SAMPLE MEASUREMENT										
EFFLUENT GROSS VALU	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

CHARLES SWANN / ASST PLT MGR
TYPED OR PRINTED

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, 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.

Charles Swann
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE 662 NUMBER 328-7551

DATE YEAR 01 MO 06 DAY 28

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

WATER, PRE-TREATMENT, CLH

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701

FACILITY LOWNDES COUNTY
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY PLANT MANAGER

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

MSP090021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

MONITORING PERIOD: FROM YEAR 01 MO 04 DAY 01 TO YEAR 01 MO 04 DAY 30

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER
*** NO DISCHARGE ***

RECEIVED
MAY 25 2001

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	Quality or Concentration MINIMUM	Quality or Concentration AVERAGE	Quality or Concentration MAXIMUM	Quality or Concentration UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.5	******	7.8	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALU	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
& GREASE (FREON	SAMPLE MEASUREMENT	******	******		******	8.5	9.0	(19)	0	2/30	GRAB
R.-IR METH) TOT, R 560 1 0 0 LUENT GROSS VALU	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	0.47	0.72	(26)	******	3.33	4.15	(19)	0	2/30	GRAB
46000 1 0 0 EFFLUENT GROSS VALU	PERMIT REQUIREMENT	28.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLAN	SAMPLE MEASUREMENT	******	0.029	(03)	******	******	******		0	7/7	CONT.
50050 1 0 0 EFFLUENT GROSS VALU	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
CHARLES SWANN / ASST. PLT. MGR
TYPED OR PRINTED

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, 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.

Charles J Swann
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE 662 NUMBER 328-7551

DATE YEAR 01 MO 05 DAY 24

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

Larry Hamil

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701
FACILITY LOWNDES COUNTY
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY PLANT MANAGER

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

MS0050021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

MONITORING PERIOD: FROM YEAR 01 MO 03 DAY 01 TO YEAR 01 MO 03 DAY 31

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WWL & BOILER
*** NO DISCHARGE [illegible] ***
NOTE: Read instructions before completing this form.

RECEIVED APR 19 2001 DEQ

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	Quality or Concentration MINIMUM	Quality or Concentration AVERAGE	Quality or Concentration MAXIMUM	Quality or Concentration UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.1	******	7.7	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR. -IR METH) TOT, RE	SAMPLE MEASUREMENT	******	******		******	9	10	(19)	0	2/31	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	9.06	14.24	(26)	******	44.13	76.30	(19)	0	2/31	GRAB
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	29.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.039	(03)	******	******	******		0	7/7	CONT
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
CHARLES SWANN / ASST PLT MGR
TYPED OR PRINTED

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, 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.

Charles J Swann
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE 662 NUMBER 328-7551

DATE YEAR 01 MO 04 DAY 17

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

WATER, PRE TREAT, ETC

Lowndes Co.

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

Kerry Hamil

PERMITTEE NAME/ADDRESS (Include Facility Name/ Location if Different)
NAME KERR-MCGEE (COLUMBUS)
ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701

FACILITY LOCATION LOWNDES COUNTY
COLUMBUS MS 39701
ATTN: R P MURPHEY PLANT MANAGER

MSP0020021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR 01 MO 01 DAY 01 TO YEAR 01 MO 31 DAY

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER

*** NO DISCHARGE ***

RECEIVED MAR 2001

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	Quality or Concentration MINIMUM	Quality or Concentration AVERAGE	Quality or Concentration MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		6.7	******	7.4	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
& GREASE (FREON TR.-IR METH) TOT, R	SAMPLE MEASUREMENT	******	******		******	8.5	9	(19)	0	2/31	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	2.93	5.63	(26)	******	15.63	26.30	(19)	0	2/31	GRAB
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	29.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	76 MO MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.026	(03)	******	******	******		0	7/7	CONTIN.
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
CHARLES SWANN / ASST. PLT. MGR
TYPED OR PRINTED

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, 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.

Charles J Swann
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 662 NUMBER 328-7551

DATE: YEAR 01 MO 01 DAY 27

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

00001/010118-1227

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701

FACILITY LOCATION LOWNDES COUNTY
COLUMBUS MS 39701
ATTN: R P MURPHEY PLANT MANAGER

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

MSP090021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	00	11	01	TO	00	11	30

Larry

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER

*** NO DISCHARGE | | ***

Form Approved.
OMB No. 2040-0004

RECEIVED DEC 2000

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.0	******	8.1	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METH) TOT, R	SAMPLE MEASUREMENT	******	******		******	7.5	8	(19)	0	2/30	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	3.25	6.43	(26)	******	16.85	32.25	(19)	0	2/30	GRAB
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	28.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.024	(03)	******	******	******		0	7/7	CONT
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

C.J SWANN / ASST. PLT. MGR

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY
662	328 7551	00	12	22

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

WATER PRE-TREATMENT CLM

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701

Lowndes Co.

FACILITY LOCATION LOWNDES COUNTY
COLUMBUS MS 39701
ATTN: R P MURPHEY PLANT MANAGER

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

MSP090021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

MONITORING PERIOD: FROM YEAR 00 MO 10 DAY 01 TO YEAR 00 MO 10 DAY 31

Larry MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER

*** NO DISCHARGE [illegible] ***

NOTE: Read Instructions before completing this form.

RECEIVED 2000 DEQ

Form Approved.
OMB No. 2040-0004

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		7.1	******	7.8	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
& GREASE (FREON EXTR. -IR METH) TOT, RG 00560 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	10	12	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/MONTH	GRAB
PHENOLS 46000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.11	0.14	(26)	******	2.0	3.5	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	28.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	0.022	(03)	******	******	******		0	7/7	CONT
	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
CHARLES SWANN / ASST. PLT. MGR
TYPED OR PRINTED

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Charles Swann
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY
662	328-7551	00	11	27

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS 2300 14TH AVENUE N
COLUMBUS MS 39701

Lowndes Co

FACILITY LOCATION LOWNDES COUNTY
COLUMBUS MS 39701
ATTN: R P MURPHEY PLANT MANAGER

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

MSP090021	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD: FROM YEAR 00 MO 09 DAY 01 TO YEAR 00 MO 09 DAY 30

Larry

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER

*** NO DISCHARGE ! DFO ***

RECEIVED NOV 2 2000

Form Approved. OMB No. 2040-0004

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		6.6	******	7.8	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	5.5 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
& GREASE (FREON TR.-IR METH) TOT, RE 00560 1 0 0 FLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	9	10	(19)	0	2/30	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS 46000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	2.82	5.59	(26)	******	14.53	27.90	(19)	0	2/30	GRAB
	PERMIT REQUIREMENT	28.2 MO AVG	42.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******		(03)	******	******	******		0	7/7	CONT.
	PERMIT REQUIREMENT	******	0.065 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE		
R.P. MURPHEY / PLT. MGR.	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, 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.	R P Murphey	662 328-7551	00	10	27
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE NUMBER	YEAR	MO	DAY

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS P O BOX 906
COLUMBUS MS 39703
FACILITY LOCATION 14TH AVE AND 20TH STREET NORTH
COLUMBUS MS 39701
ATTN: R P MURPHEY

Lowndes Co.

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

Larry MINOR (SUBR NO). F - FINAL PRETREATED *** NO DISC

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

RECEIVED
OCT 6 2000

NOTE: Read Instructions before completing this form.

PERMIT NUMBER *(2-16)*	DISCHARGE NUMBER *(17-19)*
MSP090021	001 A

MONITORING PERIOD

	YEAR *(20-21)*	MO *(22-23)*	DAY *(24-25)*		YEAR *(26-27)*	MO *(28-29)*	DAY *(30-31)*
FROM				TO			

PARAMETER *(32-37)*		(3 Card Only) QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		6.3	******	7.5	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	5.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METH) TOT, RU 00560 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	10.33	11.0	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	58 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS 34000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	3.19	6.89	(26)	******	16.40	35.50	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	32.6 MO AVG	48.8 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******		(03)	******	******	******		0	7/7	CONT.
	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
R.P. MURPHEY / PLANT MGR.
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

R P Murphey
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY
662	328-7551	00	09	19

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS P O BOX 906
COLUMBUS MS 39703
FACILITY 14TH AVE AND 20TH STREET NORTH
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY

Lowndes

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

(2-16) (17-19)

MSP090021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

Jerry

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER
*** NO DISCHARGE [ ] ***

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

2000

AUG 22 2000

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	00	07	01	TO	00	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read Instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*******	*******		7.0	*******	7.5	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	*******	*******	**** ****	5.0 MINIMUM	*******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METH) TOT, RU 00560 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	*******	*******		*******	8.5	9.0	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	*******	*******	**** ****	*******	REPORT MO AVG	30 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS 34000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	1.52	2.87	(26)	*******	10.50	18.65	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	32.5 MO AVG	48.8 MO MAX	LBS/DY	*******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*******		(03)	*******	*******	*******		0	7/7	CONTIN
	PERMIT REQUIREMENT	*******	.075 MO MAX	MGD	*******	*******	*******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE		
R.P. MURPHEY / PLT. MGR.	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*	R.P. Murphey	662 328-7551	00	08	18
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE NUMBER	YEAR	MO	DAY

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

PRE-TREATMENT

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS P O BOX 906
COLUMBUS MS 39703

Lowndes Co.

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

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
MSP090021	001 A

MINOR Larry
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER

JUL 26 2000 MRB

*** NO DISCHARGE | | ***

FACILITY LOCATION 14TH VE AND 20TH STREET NORTH
COLUMBUS MS 39701
ATTN: R P MURPHEY

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	00	06	1	TO	00	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read Instructions before completing this form.

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	*******	*******		7.2	*******	7.4	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*******	*******	**** ****	5.0 MINIMUM	*******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXT.-IR METH) TOT. RC	SAMPLE MEASUREMENT	*******	*******		*******	9	9	(19)	0	2/30	GRAB
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*******	*******	**** ****	*******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	1.00	1.38	(26)	*******	5.00	6.50	(19)	0	2/30	GRAB
34000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	32.6 MO AVG	48.8 MO MAX	LBS/DY	*******	52 MO AVG	78 MO MAX	NG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	*******	0.034	(03)	*******	*******	*******		0	7/7	CONTIN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*******	.075 MO MAX	MGD	*******	*******	*******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
R.P. MURPHEY / PLT. MGR.	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*	R P Murphey	662 328-7551	00	07	25
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE NUMBER	YEAR	MO	DAY

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

PRE-TREATMENT, LLC

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME KERR-MCGEE (COLUMBUS)

ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY 14TH VE AND 20TH STREET NORTH
LOCATION COLUMBUS MS 39701

ATTN: R P MURPHEY

Lowndes Co.

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

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
MS0090021	001 A

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	00	05	01	TO	00	05	31

Larry

MINOR
(SUBR 0D)
F - FINAL
PRETREATED PROC BOILER
MRB

JUN 28 2000

*** NO DISCHARGE |__| ***

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

NOTE: Read Instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		6.4	******	7.4	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	[illegible].0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
O[illegible] & GREASE (FREON [illegible].-IR METH)TOT,RC	SAMPLE MEASUREMENT	******	******		******	10	11	(19)	0	2/31	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	5[illegible] MO MAX	MG/L		TWICE/MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	5.43	5.46	(26)	******	32.48	38.65	(19)	0	2/31	GRAB
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	32.5 MO AVG	48.8 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.027	(03)	******	******	******		0	7/7	CONT.
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
R. P. MURPHEY / PLT. MGR.	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*	R P Murphey	662	328-7551	00	06	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

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

EPA Form 3320-1 (08-95) Previous editions may not be used. **(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)** 00005/000119-1202

LOWNDES CO., PRETREATMENT CON

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY LOCATION 14TH AVE AND 20TH STREET NORTH
COLUMBUS MS 39701
ATTN: R P MURPHEY

Lowndes Co.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*
(2-16)

MSP090021 — PERMIT NUMBER

001 A — DISCHARGE NUMBER *(17-19)*

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	00	04	1	TO	00	04	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Larry

MINOR
(SUBR MO)
F - FINAL
PRETREATED PROCESS WW & BOILER

*** NO DISCHARGE [ ] ***

MRB

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

JUN - 6 2000

NOTE: Read Instructions before completing this form.

PARAMETER *(32-37)*		(3 Card Only) QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	********	********		7.0	********	8.0	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	********	********	**** ****	6.0 MINIMUM	********	9.0 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON E.P.A.-1A METH) TOT RU 00550 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	********	********		********	11.50	14	(19)	0	2/30	GRAB
	PERMIT REQUIREMENT	********	********	**** ****	********	REPORT MO AVG	59 MO MAX	MG/L		ONCE/ MONTH	GRAB
PHENOLS 34000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	7.57	13.24	(25)	********	30.85	53.70	(19)	0	2/30	GRAB
	PERMIT REQUIREMENT	32.6 MO AVG	48.8 MO MAX	LBS/DY	********	52 MO AVG	78 MO MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	********	0.063	(03)	********	********	********		0	7/7	CONT
	PERMIT REQUIREMENT	********	.075 MO MAX	MGD	********	********	********	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE		
R.P. MURHEY / PLT. MGR.	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*	R P Murphey	662 328-7551	00	05	24
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE / NUMBER	YEAR	MO	DAY

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

LOWNDES CO, PRE-TREATMENT/CLA

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

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME KERR-MCGEE (COLUMBUS) Lowndes

ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY LOCATION 14TH AVE AND 20TH STREET NORTH
COLUMBUS MS 39701

ATTN: R P MURPHEY

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
MSP090021	001 A

Larry

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS BOILER
MRB

MAY - 5 2000

MONITORING PERIOD	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	00	03	01	TO	00	03	31

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		QUANTITY OR LOADING (3 Card Only) AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	QUANTITY OR CONCENTRATION (4 Card Only) MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		6.2	******	7.5	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	******	5.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
& GREASE (FREON R.-IR METH)TOT,RC	SAMPLE MEASUREMENT	******	******		******	10.33	12	(19)	0	3/31	GRAB
0 1 0 0 LUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	******	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	7.89	16.31	(26)	******	38.25	75.90	(19)	0	3/31	GRAB
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	32.6 MO AVG	48.8 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.036	(03)	******	******	******		0	7/7	CONTIN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	******	******		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
R.P. MURPHEY / PLT MGR. (TYPED OR PRINTED)	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*	R.P. Murphey	662 (AREA CODE)	328-7551 (NUMBER)	00 (YEAR)	04 (MO)	20 (DAY)

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

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR) (2-16) (17-19)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME KERR-MCGEE (COLUMBUS)
ADDRESS P O BOX 999
COLUMBUS MS 39703

FACILITY LOCATION 14TH AVE AND 20TH STREET NORTH
COLUMBUS MS 39701
ATTN: R P MURPHEY

MS0030021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	00	03	01	TO	00	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MINOR
(SUB-CATEGORY)
F - FINAL
PRETREATED PROCESS WW & BOILER
*** NO DISCHARGE [ ] ***
NOTE: Read Instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		6.2	******	7.5	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	5.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METHOD)(HOT,RU	SAMPLE MEASUREMENT	******	******		******	10.33	12	(19)	0	3/31	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	15 MO MAX	MG/L		TWICE/MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	7.89	16.31	(26)	******	38.25	75.90	(19)	0	3/31	GRAB
34000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	32.5 MO AVG	48.8 MO MAX	LBS/DY	******	32 MO AVG	48 MO MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.036	(03)	******	******	******		0	7/7	CONTIN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE		
R.P. MURPHEY / PLT MGR.	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)		662 328-7551	00	04	20
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE NUMBER	YEAR	MO	DAY

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

EPA Form 3320-1 (08-95) Previous editions may not be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

COLUMBUS CO., PRETREATMENT

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY LOCATION 14TH VE AND 20TH STREET NORTH
COLUMBUS MS 39701
ATTN: R P MURPHEY

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

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
MSR090021	001 A

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

*** NO DISCHARGE [__] ***

NOTE: Read Instructions before completing this form.

MONITORING PERIOD	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	00	02	01	TO	00	02	29

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*******	*******		7.4	*******	7.5	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	*******	*******	**** ****	5.0 MINIMUM	*******	9.0 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON E.-IR METH) TOT, RC 00560 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*******	*******		*******	9.0	10.0	(19)	0	2/29	GRAB
	PERMIT REQUIREMENT	*******	*******	*** ****	*******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS 34000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	3.98	7.13	(26)	*******	21.83	39.85	(19)	0	2/29	GRAB
	PERMIT REQUIREMENT	32.6 MO AVG	48.6 MO MAX	LBS/DY	*******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*******	0.028471	(03)	*******	*******	*******		0		
	PERMIT REQUIREMENT	*******	.075 MO MAX	MGD	*******	*******	*******	*** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT				MAR 31 2000						
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
R.P. MURPHEY / PLANT MANAGER
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

R.P. Murphey
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY
662	328-7551	00	3	28

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME KERR GEE (COLUMBUS)

ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY LOCATION 14TH VE AND 20TH STREET NORTH
COLUMBUS MS 39701

ATTN: R. P. MURPHEY

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

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-95

MSP090021 (PERMIT NUMBER)

001 A (DISCHARGE NUMBER)

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER

MRD

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	00	02	01	TO	00	02	29

*** NO DISCHARGE [ ] ***

NOTE: Read Instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		7.4	******	7.5	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*** ****	6.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METHOD), RC 00560 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	9.0	10.0	(19)	0	2/29	GRAB
	PERMIT REQUIREMENT	******	******	*** ****	******	REPORT MO AVG	30 MO MAX	MG/L		WEEK/ MONTH	GRAB
PHENOLS 46000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	3.78	7.13	(26)	******	21.83	39.85	(19)	0	2/29	GRAB
	PERMIT REQUIREMENT	42.0 MO AVG	98.0 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******		(03)	******	******	******		0		
	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.P. MURPHEY / PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to $10,000 and, or maximum imprisonment of between 6 months and 6 years.)

R. P. Murphey

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 662 NUMBER 327-7551

DATE: YEAR 00 MO 3 DAY 28

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

EPA Form 3320-1 (08-95) Previous editions may not be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

00002/000119-1202

PAGE 1 OF 1

04/18/00 TUE 14:07 FAX 601 328 7551 601 328 7551 KERR McGEE COL. 007

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY 14TH VE AND 20TH STREET NORTH
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY

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

(2-16)	*(17-19)*
MSP090021	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	00	01	01	TO	00	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE [__] ***

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MRB

NOTE: Read Instructions before completing this form.

PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUANTITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
PH	SAMPLE MEASUREMENT	******	******		7.1	******	7.2	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	6.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METH) TOT,RC	SAMPLE MEASUREMENT	******	******		******	9	9	(19)	0	2/31	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	4.00	7.16	(26)	******	16.98	30.20	(19)	0	2/31	GRAB
34000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	32.6 MO AVG	48.8 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.031	(03)	******	******	******		0	31/31	CONTIN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	****** ****	****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.P. MURPHEY / PLT. MGR.

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

R P Murphey 2/28/00

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY
662	3287551	00	02	28

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME KER[illegible] MCGEE (COLUMBUS)
ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY 14TH VE AND 20TH STREET NORTH
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY

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

MSP090021	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER

Form Approved. OMB No. 2040-0004 Approval expires 05-31-98

MRB

MONITORING PERIOD: FROM YEAR 00 MO 01 DAY 01 TO YEAR 00 MO 01 DAY 31

*** NO DISCHARGE |__| ***
NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		7.1	******	7.2	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	******	******	******	6.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METH)TOT,RC 00560 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	9	9	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	******	******	******	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/MONTH	GRAB
PHENOLS 66000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	4.00	7.16	(26)	******	16.98	30.20	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	2.6 MO AVG	8.8 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	0.031	(03)	******	******	******		0	31/31	CONTIN
	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	******	******		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
R.P. MURPHEY / PLT. MGR.
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

R P Murphey 2/28/00
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
662	3287551	00	02	28
AREA CODE	NUMBER	YEAR	MO	DAY

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY 14TH VE AND 20TH STREET NORTH
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*
(2-16) *(17-19)*

MSP090021	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	99	12	01	TO	99	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE | __ | ***

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		(3 Card Only) *(46-53)* QUANTITY OR LOADING *(54-61)* AVERAGE	MAXIMUM	UNITS	(4 Card Only) *(38-45)* QUANTITY OR CONCENTRATION *(46-53)* MINIMUM	AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
PH	SAMPLE MEASUREMENT	******	******		6.2	******	7.1	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	5.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METH) TOT,RC	SAMPLE MEASUREMENT	******	******		******	9.5	11	(19)	0	2/31	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	1.79	3.57	(26)	******	10.88	21.75	(19)	0	2/31	GRAB
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	32.5 MO AVG	48.3 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.029	(03)	******	******	******		0	7/7	CONT.
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	****** ****	****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

RONALD P. MURPHEY
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

Ronald P Murphey
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
662 328 7551		00	01	26
AREA CODE	NUMBER	YEAR	MO	DAY

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS P O BOX 906
COLUMBUS MS 39703

Lowndes

FACILITY 14TH VE AND 20TH STREET NORTH
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*
(2-16)

MS P090021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER *(17-19)*

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	99	11	01	TO	99	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE [ ] ***

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		(3 Card Only) *(46-53)* QUANTITY OR LOADING *(54-61)* AVERAGE	MAXIMUM	UNITS	(4 Card Only) *(38-45)* QUANTITY OR CONCENTRATION *(46-53)* MINIMUM	AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
PH	SAMPLE MEASUREMENT	******	******		6.5	******	6.9	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	5.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METH) TOT, RC	SAMPLE MEASUREMENT	******	******		******	10.33	11	(19)	0	2/30	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	2.05	4.35	(26)	******	11.02	24.40	(19)	0	2/30	GRAB
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	32.6 MO AVG	48.8 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.029	(03)	******	******	******		0	7/7	CON
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	****** **** ****			DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

RECEIVED
DEC 28 1999
DEQ-OPC

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

RP MURPHEY / PLT MGR
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

R P Murphey
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY
601	328-7551	99	12	27

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

PERMITTEE NAME/ADDRESS (Include Facility Name/ Location if Different)
NAME KERR-MCGEE (COLUMBUS) (Lowndes)
ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY 14TH VE AND 20TH STREET NORTH
LOCATION COLUMBUS MS 39701
ATT.N: R P MURPHEY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

SP090021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WATER

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	99	10	01	TO	99	10	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE [ ] ***

NOV 29 1999 MRB

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		6.5	******	6.8	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	6.0 MINIMUM	******	9.0 MAXIMUM	SU		WEEKLY	GRAB
[redacted] GREASE (FREON EXTR.-IR METH) TOT,RC	SAMPLE MEASUREMENT	******	******		******	16.5	19	(19)	0	2/31	GRAB
84066 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	2.85	2.94	(26)	******	12.88	13.45	(19)	0	2/31	GRAB
34000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	32.5 MO AVG	48.8 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.029	(03)	******	******	******		0	7/7	CONTIN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
[redacted]	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
R.P. MURPHEY / PLANT MGR
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

R.P. Murphey
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 601 | NUMBER 328 7551

DATE: YEAR 99 | MO 11 | DAY 23

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS) Laundries
ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY 14TH VE AND 20TH STREET NORTH
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*
(2-16) *(17-19)*

MSP090021 PERMIT NUMBER
001 A DISCHARGE NUMBER

MINOR Fuck
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER MRB

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	99	09	01	TO	99	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE 09/99 ***

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		6.5	******	6.8	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	5.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
GREASE (FREON EXT-IR METH) TOT, RC	SAMPLE MEASUREMENT	******	******		******	12.5	17	(19)	0	2/30	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	3.73	6.78	(26)	******	20.88	37.80	(19)	0	2/30	GRAB
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	32.6 MO AVG	48.8 MO MAX	LBS/DY	******	52 MO AVG	79 MO MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.028	(03)	******	******	******		0	7/7	CONTIN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.P. MURPHEY / PLT. MGR
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

R P Murphy
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY
601	328-7551	99	10	26

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS) Lowndes
ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY 14TH VE AND 20TH STREET NORTH
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*
(2-16) *(17-19)*

MS0090021	001 Y
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	99	01	01	TO	99	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MINOR Kerr
(SUBR NO)
F - FINAL
PROCESS WASTEWATER

*** NO DISCHARGE |__| ***

MRB

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUANTITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
ARSENIC, TOTAL (AS AS) 01002 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	<0.0004	(26)	******	<0.002	<0.002	(19)	0	2/365	COMP
	PERMIT REQUIREMENT	******	1.48 ANNL MAX	LBS/DY	******	REPORT ANNL AVG	2.36 ANNL MAX	MG/L		SEMI-ANNUAL	COMPOS
CHROMIUM, TOTAL (AS CR) 01034 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	0.004	(26)	******	0.02	0.02	(19)	0	2/365	COMP
	PERMIT REQUIREMENT	******	1.48 ANNL MAX	LBS/DY	******	REPORT ANNL AVG	2.36 ANNL MAX	MG/L		SEMI-ANNUAL	COMPOS
COPPER, TOTAL (AS CU) 01042 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	0.002	(26)	******	0.01	0.01	(19)	0	2/365	COMP
	PERMIT REQUIREMENT	******	1.85 ANNL MAX	LBS/DY	******	REPORT ANNL AVG	2.95 ANNL MAX	MG/L		SEMI-ANNUAL	COMPOS
PENTACHLOROPHENOL 39032 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	<0.0014	<0.0014	(26)	******	<0.007	<0.007	(19)	0	2/365	GRAB
	PERMIT REQUIREMENT	.744 ANNL AVG	1.12 ANNL MAX	LBS/DY	******	1.19 ANNL AVG	1.79 ANNL MAX	MG/L		SEMI-ANNUAL	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT					FEB 2 2000					
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Ronald P Murphey
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

Ronald P Murphey
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY
662	328 7551	00	01	26

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

COMPOSITE SAMPLES SHOULD CONSIST OF MANUAL GRAB SAMPLES OF EQUAL ALIQUOT VOLUMES TAKEN EVERY FOUR HOURS FOR THE DURATION OF THE DISCHARGE DURING THE 24-HOUR PERIOD.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME KERR-MCGEE (COLUMBUS)
ADDRESS P O BOX 906
COLUMBUS MS 39703

Lowndes County
KAS

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

(2-16)	(17-19)
MSP090021	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER
MRB

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

FACILITY 14TH VE AND 20TH STREET NORTH
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	99	08	01	TO	99	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE |__| ***
NOTE: Read instructions before completing this form.

PARAMETER (32-37)		QUANTITY OR LOADING (3 Card Only) AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	QUANTITY OR CONCENTRATION (4 Card Only) MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		6.1	******	6.7	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	******	5.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METH)TOT,RC	SAMPLE MEASUREMENT	******	******		******	12	13	(19)	0	2/31	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	******	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	1.48	1.48	(26)	******	7.23	7.95	(19)	0	2/31	GRAB
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	32.6 MO AVG	48.8 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.027	(03)	******	******	******		0	31/31	CONTIN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	******	******		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT					SEP 23 1999					
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
R.P. MURPHEY / PLANT MANAGER
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

R P Murphey
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
601	328-7551	99	09	22
AREA CODE	NUMBER	YEAR	MO	DAY

RECEIVED

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

EPA Form 3320-1 (08-95) Previous editions may be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.) 00008/990120-0939

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS P O BOX 906
COLUMBUS MS 39703

Lowndes County
KAS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*
(2-16)

MS0020021
PERMIT NUMBER

001 A
DISCHARGE NUMBER *(17-19)*

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER
MRB

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

FACILITY LOCATION 14TH VE AND 20TH STREET NORTH
COLUMBUS MS 39701
ATTN: R P MURPHEY

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	99	07	01	TO	99	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE |__| ***
NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		(3 Card Only) QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		6.2	******	7.9	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	5.0 MINIMUM	******	9.0 MAXIMUM	SU		WEEKLY	GRAB
& GREASE (FREON .-IR METH) TOT, RC 00560 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	11.0	13.0	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS 46000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	1.65	1.95	(26)	******	8.65	10.65	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	32.6 MO AVG	48.8 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	0.029	(03)	******	******	******		0	7/7	CONT.
	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

AUG 31 1999

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
R.P. MURPHEY / PLT. MGR.	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*	R.P. Murphy	601 328-7551	99	08	26
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE NUMBER	YEAR	MO	DAY

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS) Lowndes
ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY 14TH VE AND 20TH STREET NORTH
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*
(2-16) | *(17-19)*

MSP090021	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	99	06	01	TO	99	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Kerr
MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER
JUL 21 1999
MRB
*** NO DISCHARGE [ ] ***
NOTE: Read instructions before completing this form.

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUANTITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		6.2	******	6.8	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	5.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON E.P.-IR METH) TOT, RC 00560 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	12.67	17	(19)	0	3/31	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS 46000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	2.88	4.36	(26)	******	16.80	24.85	(19)	0	3/31	GRAB
	PERMIT REQUIREMENT	32.6 MO AVG	48.8 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	0.028	(03)	******	******	******		0	7/7	CONT
	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
R.P. MURPHEY / PLT. MGR.
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

R. P. Murphy
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
601	328 7551	99	07	19
AREA CODE	NUMBER	YEAR	MO	DAY

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS)
ADDRESS P O BOX 906
COLUMBUS MS 39703

Lowndes
ICAS

FACILITY LOCATION 14TH VE AND 20TH STREET NORTH
COLUMBUS MS 39701
ATTN: R P MURPHEY

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

MSP090021 (2-16)	001 A (17-19)
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	99	05	31	TO	99	05	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WASTEWATER

*** NO DISCHARGE | | ***

NOTE: Read instructions before completing this form.

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

JUN 29 1999 MRB

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		6.2	******	7.5	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	5.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXTR.-IR METH) TOT, RC	SAMPLE MEASUREMENT	******	******		******	13	17	(19)	0	2/31	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	3.21	3.56	(26)	******	18.80	20.70	(19)	0	2/31	GRAB
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	32.8 MO AVG	48.8 MO MAX	LBS/DY	******	52 MO AVG	75 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.029	(03)	******	******	*******		0	7/7	GRAB
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	*******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.P. MURPHEY / PLT MGR
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

R P Murphy
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY
601	3287551	99	06	23

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS) KAS
ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY 14TH VE AND 20TH STREET NORTH
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY Lowndes

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

MSP090021	001 A
PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	99	04	01	TO	99	04	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER KS

*** NO DISCHARGE [ ] ***
NOTE: Read instructions before completing this form.

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		6.0	******	6.6	(12)		1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	****** **** ****		5.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
[redacted] GREASE (FREON [redacted]-IR METH) TOT, RC	SAMPLE MEASUREMENT	******	******		******	7.5	8.0	(19)	0	2/30	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	****** **** ****		******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	3.68	4.45	(26)	******	19.35	25.25	(19)	0	2/30	GRAB
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	32.6 MO AVG	48.8 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.031	(03)	******	******	******		0	7/7	CONT.
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	****** ****	****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

RECEIVED
MAY 24 1999

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
R.P. MURPHEY / PLT MGR	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 6 years.)*	R.P. Murphy	601 328-7551	99	05	19
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*
NAME KERR-MCGEE (COLUMBUS) KAS
ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY 14TH VE AND 20TH STREET NORTH
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*
(2-16)

MS0090021 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

Lowndes Co.
MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	99	03	01	TO	99	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE | __ | *** KS

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		(3 Card Only) QUANTITY OR LOADING *(46-53)* AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		6.0	******	6.9	(12)	0	1/7	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	5.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON EXT.-IR METH) TOT, RC 00560 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	7.33	9	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRAB
PHENOLS 46000 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	1.50	1.61	(26)	******	7.05	7.25	(19)	0	2/31	GRAB
	PERMIT REQUIREMENT	32.6 MO AVG	48.8 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	0.032	(03)	******	******	******		0	7/7	CONT.
	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	******	**** ****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

RECEIVED
MAY - 4 1999
DEQ-ECD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
R.P. MURPHEY / PLT. MGR	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*	R.P. Murphey	601 328-7551	99	04	27
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE / NUMBER	YEAR	MO	DAY

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

NAME KERR-MCGEE (COLUMBUS) Lowndes

ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY 14TH VE AND 20TH STREET NORTH
LOCATION COLUMBUS MS 39701
ATTN: R P MURPHEY

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

(2-16) PERMIT NUMBER: MSP090021

(17-19) DISCHARGE NUMBER: 001 A

MINOR (SUB NO) F - FINAL
PRETREATED PROCESS WW & BOILER

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	99	02	01	TO	99	02	28
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE | | | ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		6.3	******	6.8	(12)	0	1/7	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	5.0 MINIMUM	******	9.5 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON ...-IR METH) TOT, RC	SAMPLE MEASUREMENT	******	******		******	8	9	(19)	0	2/28	GRAB
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/MONTH	GRAB
PHENOLS	SAMPLE MEASUREMENT	3.22	4.42	(26)	******	13.48	18.65	(19)	0	2/28	GRAB
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	32.6 MO AVG	48.6 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.031	(03)	******	******	******		0	7/7	CONT.
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	****** ****	****		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

RECEIVED 9 1999

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.P. MURPHEY / PLT. MANAGER
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

R. P. Murphey
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 601 | NUMBER 328-7551

DATE: YEAR 99 | MO 03 | DAY 12

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

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME KERR-MCGEE (COLUMBUS) Lowndes

ADDRESS P O BOX 906
COLUMBUS MS 39703

FACILITY LOCATION 14TH VE AND 20TH STREET NORTH
COLUMBUS MS 39701

ATTN: R P MURPHEY

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

MSP090021 — PERMIT NUMBER (2-16)

001 A — DISCHARGE NUMBER (17-19)

MONITORING PERIOD: FROM YEAR 99 MO 01 DAY 01 (20-21) (22-23) (24-25) TO YEAR 99 MO 01 DAY 31 (26-27) (28-29) (30-31)

MINOR
(SUBR NO)
F - FINAL
PRETREATED PROCESS WW & BOILER

*** NO DISCHARGE |__| ***
NOTE: Read instructions before completing this form.

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

PARAMETER (32-37)		QUANTITY OR LOADING (3 Card Only) AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	QUANTITY OR CONCENTRATION (4 Card Only) MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		6.2	******	6.7	(12)	0	1/7	GRA
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	5.0 MINIMUM	******	9.5 [illegible]	SU		WEEKLY	GRA
[illegible] & GREASE (FREON EX.-IR METH)TOT,RC	SAMPLE MEASUREMENT	******	******		******	7	8	(19)	0	2/31	GR
00560 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	59 MO MAX	MG/L		TWICE/ MONTH	GRA
PHENOLS	SAMPLE MEASUREMENT	3.57	5.81	(26)	******	15.68	24.90	(19)	0	2/31	GR
46000 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	32.6 MO AVG	48.8 MO MAX	LBS/DY	******	52 MO AVG	78 MO MAX	MG/L		TWICE/ MONTH	GR
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	0.031	(03)	******	******	******		0	7/7	C
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	.075 MO MAX	MGD	******	******	******	**** ****		DAILY	C
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

RECEIVED
FEB 26 1999
DEQ-ECED

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.P. Murphey
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

R.P. Murphey

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 601 NUMBER 328-7551

DATE: YEAR 99

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

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

December 16, 2001

Mississippi Department of Natural Resources
Bureau of Pollution Control
Att: Larry Hamil
P. O. Box 10385
Jackson, MS 39209

Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of November 2001. If you have any questions please contact me at 601/328-7551.

Sincerely,
KERR-MCGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Charles J. Swann
Assistant Plant Manager

Enclosures

cc: N. Bock
S. Barksdale

FOREST PRODUCTS

LOWNDES CO, PRETREATMENT, MSP0?0??, ...

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

RECEIVED
NOV 29 2001
Dept. of Environmental Quality
Office of Pollution Control

November 26, 2001

Mississippi Department of Natural Resources
Bureau of Pollution Control
Att: Larry Hamil
P. O. Box 10385
Jackson, MS 39209

Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of October 2001. If you have any questions please contact me at 601/328-7551.

Sincerely,
KERR-MCGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Charles J. Swann

Charles J. Swann
Assistant Plant Manager

Enclosures

cc: N. Bock
S. Barksdale

FOREST PRODUCTS

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

October 26, 2001

Mississippi Department of Natural Resources
Bureau of Pollution Control
Att: Larry Hamil
P. O. Box 10385
Jackson, MS 39209

Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of September 2001. If you have any questions please contact me at 601/328-7551.

Sincerely,
KERR-MCGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Charles J. Swann
Assistant Plant Manager

Enclosures

cc: N. Bock
S. Barksdale

Forest Products

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

September 28, 2001

Mississippi Department of Natural Resources
Bureau of Pollution Control
Att: Larry Hamil
P. O. Box 10385
Jackson, MS 39209

Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of August 2001. If you have any questions please contact me at 601/328-7551.

Sincerely,
KERR-MCGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Charles J. Swann
Assistant Plant Manager

Enclosures

cc: N. Bock
S. Barksdale

CERTIFIED: 7000 0520 0016 3783 2673

Forest Products

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

August 25, 2001

Mississippi Department of Natural Resources
Bureau of Pollution Control
Att: Larry Hamil
P. O. Box 10385
Jackson, MS 39209

Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of July 2001. If you have any questions please contact me at 601/328-7551.

Sincerely,
KERR-MCGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Charles J. Swann
Assistant Plant Manager

Enclosures

cc: N. Bock
S. Barksdale

FOREST PRODUCTS

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

July 26, 2001

Mississippi Department of Natural Resources
Bureau of Pollution Control
Att: Larry Hamil
P. O. Box 10385
Jackson, MS 39209

Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of June 2001. If you have any questions please contact me at 601/328-7551.

Sincerely,
KERR-MCGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Charles J. Swann
Assistant Plant Manager

Enclosures

cc: N. Bock
S. Barksdale

CERTIFIED MAIL: 7000 0520 0016 3783 2666

FOREST PRODUCTS

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

July 17, 2001

Mississippi Department of Natural Resources
Bureau of Pollution Control
Att: Larry Hamil
P. O. Box 10385
Jackson, MS 39209

Dear Mr. Hamil:

Attached, please find the signed Discharge Monitoring Report for the month of February 2001. I apologize for any inconvenience this may have caused. If you have any questions please contact me at 601/328-7551.

Sincerely,
KERR-MCGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Charles J. Swann
Assistant Plant Manager

Enclosures

cc: N. Bock

FOREST PRODUCTS

LOWNDES CO., WATER, PRE-TREATMENT, CLH

FILE COPY

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

July 13, 2001

Mr. Chuck Swann
Assistant Plant Manager
Kerr-McGee Chemical, LLC
2300 14th Avenue N
Columbus, MS 39701

Dear Mr Swann:

Re: Pretreatment Permit No. MSP 090021
Discharge Monitoring Report

During a recent file review it was noted the February Discharge Monitoring Report (DMR) had not been duly signed prior to submittal. Enclosed is the report which should be signed and returned to our office at your earliest convenience.

Thank you for your prompt attention in this matter.

Sincerely,

Larry Hamil

Larry Hamil
Environmental Compliance & Enforcement Division

LH:clh
Enclosure

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

June 28, 2001

Mississippi Department of Natural Resources
Bureau of Pollution Control
Att: Larry Hamil
P. O. Box 10385
Jackson, MS 39209

Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of May 2001. If you have any questions please contact me at 601/328-7551.

Sincerely,
KERR-MCGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Charles J. Swann
Assistant Plant Manager

Enclosures

cc: N. Bock
S. Barksdale

CERTIFIED MAIL: 7000 0520 0016 3783 2659

FOREST PRODUCTS

LOWNDES CO, WATER, PRETREATMENT, MS0076066, CCH

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

May 24, 2001

Mississippi Department of Natural Resources
Bureau of Pollution Control
Att: Larry Hamil
P. O. Box 10385
Jackson, MS 39209

Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of April 2001. If you have any questions please contact me at 601/328-7551.

Sincerely,
KERR-MCGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

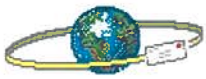
Charles J. Swann
Assistant Plant Manager

Enclosures

cc: N. Bock
S. Barksdale

CERTIFIED MAIL: 7000 0520 0016 3783 2635

FOREST PRODUCTS



"Bock, Nick" <nbock@kmg.com> on 08/21/2000 12:52:35 PM

To: John Taylor/SW/OPC/DEQ@DEQ
cc: "Murphey, Ron" <RMURPHEY@KMG.com>, "Swann, Chuck" <CSWANN@KMG.com>
Subject: Columbus Light and Water Department Comment Letter

I have reviewed the revised comment letter dated August 18, 2000 of the Columbus Light and Water Department.
Kerr-McGee believes the lower pH limit should be raised to 5.5 standard units in the final permit.
Based upon our interpretation of the permit, Kerr-McGee is proceeding with the addition of additional/new aerators in the biological system without a formal permit modification.

We concur with the city's comments

Nick Bock
Manager, Regulatory Compliance and Environmental Affairs
Kerr-McGee Chemical LLC, Forest Products Division
Oklahoma City, OK
Telephone: 405-270-2394
KMCLLC FAX 405-270-2420
Direct FAX 405-270-4310
email: nbock@kmg.com

LOWNDES CO., [illegible] MS[illegible]90021

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

August 18, 2000

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209
Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of July 2000. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock
Steve Barksdale

Forest Products

COLUMBUS
LIGHT AND WATER DEPARTMENT

420 4th Avenue South
P. O. Box 949
Columbus, Mississippi 39703
Telephone: (662) 328-7192
Fax: (662) 243-7408

August 18, 2000

Mr. John Taylor, P. E., P.G.
Industrial Permitting Section
Office of Pollution Control
Department of Environmental Quality
P. O. Box 10385
Jackson, MS 39289-0385

REFERENCE: KERR-MCGEE DRAFT PERMIT COMMENTS

Dear Mr. Taylor:

In regard to our letter of August 14, 2000, our staff and engineer and Kerr-McGee have held further discussions. Below are our revised comments:

1. Since Kerr-McGee is in the process of adding treatment processes for additional phenol removal, Columbus Light and Water does not request permit limit changes at this time. If after this additional treatment is completed there are problems at the Columbus POTW, we will request futher review of the limits at that time.

2. The Kerr-McGee ph limit of 5. The City of Columbus has a sewer ordinance that establishes a ph range of 5.5 to 9.5. We request that the ph lower limit be 5.5 for Kerr-McGee.

Columbus Light and Water Department appreciates your consideration of these comments in your permit review process. As per our telephone conversation we do not need to review another draft of Kerr-McGee's pretreatment permit if these changes are acceptable to Kerr-McGee.

Sincerely,

Fred Hayslett,
General Manager

FH/dtc

cc: David R. Bowman, P.E.
Neel-Schaffer, Inc.

COLUMBUS
LIGHT AND WATER DEPARTMENT
520 4th Avenue South
P. O. Box 949
Columbus, Mississippi 39703
Telephone: (662) 328-7192
Fax: (662) 243-7408

Post-it® Fax Note 7671 | Date | # of pages ▶ 1
To JOHN TAYLOR | From N BOCK
Co./Dept. | Co.
Phone # | Phone # 405 270 2594
Fax # 601 354 6612 | Fax #

August 18, 2000

Mr. John Taylor, P. E., P.G.
Industrial Permitting Section
Office of Pollution Control
Department of Environmental Quality
P. O. Box 10385
Jackson, MS 39289-0385

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Sincerely,

Fred Hayslett
General Manager

FH/dlc

cc: David R. Bowman, P.E.
Neel-Schaffer, Inc.

601 354 6612

COLUMBUS
LIGHT AND WATER DEPARTMENT

420 4th Avenue South
P. O. Box 949
Columbus, Mississippi 39703
Telephone: (662) 328-7192
Fax: (662) 243-7408

August 18, 2000

Mr. John Taylor, P. E., P.G.
Industrial Permitting Section
Office of Pollution Control
Department of Environmental Quality
P. O. Box 10385
Jackson, MS 39289-0385

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Sincerely,

Fred Hayslett
General Manager

FH/dtc

cc: David R. Bowman, P.E.
Neel-Schaffer, Inc.

NEEL-SCHAFFER, INC.
ENGINEERS • PLANNERS
Post Office Box 2100
Columbus, MS 39704-2100
Ph. (662) 328-4547
Fax No. (662) 328-8552

FAX Transmission Sheet

To: John Taylor FAX Phone No.: 601-354-6612

From: David Boorman

Date: 8-18-00 Time: 3:35 pm.

Total Number of Pages in this Transaction (Including Cover Sheet): 2

Comments:

Original in mail -

Please check the appropriate box below:

❑ 1 - Jackson	❑ 2 - Hattiesburg	❑ 4 - Baton Rouge
❑ 5 - Nashville	❑ ~~6 - Tupelo~~/Columbus	❑ 7 - Birmingham
❑ 8 - Atlanta	❑ 9 - Corporate	❑ Overhead
❑ Proposal	❑ Personal No.	❑ Project No. _____

FAX Operator for Neel-Schaffer: Pete Walsh

PLEASE NOTIFY US IF THE MESSAGE IS INCOMPLETE OR UNCLEAR. THANK YOU.

KERR-McGEE CHEMICAL LLC
KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

August 3, 2000

John Taylor P. E.
Office of Pollution Control
P.O. Box 10385
Jackson, MS 39289-0385

Re: Draft Wastewater Permit For Kerr-McGee Chemical LLC, Columbus, MS Wood Preserving Facility, MS0056472

Dear Mr. Taylor:

Kerr-McGee Chemical LLC has reviewed the Draft Wastewater Permit For Kerr-McGee Chemical LLC, Columbus, MS Wood Preserving Facility, dated July 27, 2000. We concur with the terms of the permit and recommend issuance of the permit. Kerr-McGee has no comments with respect to the draft permit, however, we desire to clarify three permit conditions contained in the draft.

Condition Part I., B.2, Schedule Of Compliance

It is our understanding that the facility shall submit a written notice to the Permit Board within 14 days of permit issuance that the facility the compliance status of the facility. This notice shall be sent to your attention at the above address.

Condition Part II., A.18, Hazardous Waste Release

This condition requires notification whenever a hazardous waste under 40 CFR part 261 is released. Our wastewater is classified as an EPA listed hazardous waste F034. Wastewaters are then specifically excluded from the definition of a solid waste in 40 CFR 261.4.(a).(2). when regulated under section 402 of the Clean Water Act. Per our discussions on August 3, 2000, Kerr-McGee Chemical therefore does not intend to make farther notifications with respect to Condition Part II., A.18 of the final permit.

Condition Part II., A.28, Other Specific Requirements

This condition requires the reporting of production rates from processes which generate wastewater discharged as required by 40 CFR 403.12(e)(3). We do not believe this condition is applicable to the facility. The 40 CFR 403.12(e)(3) provision is based upon industrial users which are subject to equivalent mass or concentrations limits established in 40 CFR 403.6(c). Our permit limits were neither established in accordance with procedures in 40 CFR 403.6(c) nor are limits expressed in terms of mass of pollutant per unit of production. **Therefore, Kerr-McGee does not intend to provide production rates specified in Condition Part II., A.28, Other Specific Requirements.** Should we have misinterpreted this provision please advice.

Should you have any questions, please telephone me at (405) 270- 2394.

Sincerely,

KERR-McGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Nick Bock
Manager, Regulatory Compliance and Environmental Affairs

cc: R. P. Michel, KMCLLC
R. P. Murphey, Facility

KERR-McGEE CHEMICAL LLC
KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

August 4, 2000

John Taylor P. E.
Office of Pollution Control
P.O. Box 10385
Jackson, MS 39289-0385

RE: Kerr-McGee Chemical Corporation, Forest Products Division
Columbus, MS Facility, Authorized Signatories for
Discharge Monitoring Reports (DMRs)

Dear Mr. Taylor:

In reference to Part II, Condition 12 of the Columbus, MS Water Pollution Control Permit (MS0056472) regarding authorized signatories for all correspondence relating to the discharge of wastewater from the Columbus, Mississippi wood preserving plant, I, Robert P. Michel, Vice President and General Manager of the Forest Products Division, hereby revoke all previous signatory authorizations for the Columbus, Mississippi facility.

I now designate and grant authorize signatories to Ronald P. Murphey (Plant Manager) and Charles Swann (Treating Supervisor) to act as authorized signatories for the Columbus, Mississippi facility until permit expiration on September 11, 2005.

If you have any questions or comments regarding this matter, please do not hesitate to contact me at (405) 270-2401 or Nick Bock at (405) 270-2420.

Sincerely,

KERR-McGEE CHEMICAL LLC
FOREST PRODUCTS DIVISON

R. P. Michel
Vice President & General Manager

RPM/nb

cc: N. E. Bock
R. P. Murphey
C. Swann

FOREST PRODUCTS

LOWNDES CO., WATER, PRE-TREAT, MS0700021, LCH

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

April 17, 2001

Mississippi Department of Natural Resources
Bureau of Pollution Control
Att: Larry Hamil
P. O. Box 10385
Jackson, MS 39209

Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of February 2001. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

Charles J. Swann
Assistant Plant Manager

Enclosures

cc: N. Bock
S. Barksdale

CERTIFIED MAIL: 7000 0520 0016 3783 2628

FOREST PRODUCTS

LOWNDES CO., WATER, PRETREATMENT, CLH, MSPO 20021

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

March 28, 2001

Mississippi Department of Natural Resources
Bureau of Pollution Control
Att: Larry Hamil
P. O. Box 10385
Jackson, MS 39209

Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of February 2001. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

Charles J Swann

Charles J. Swann
Assistant Plant Manager

Enclosures

cc: N. Bock

Forest Products

LOWNDES CO., PRE-TREATMENT

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

March 28, 2001

Mississippi Department of Environmental Quality
Mr. Larry Hamil
P.O. Box 10385
Jackson, Mississippi 39289-0385

Re: Spill Report No. 560743
Kerr-McGee Chemical LLC
Wood Treating Plant
Columbus, Mississippi

Dear Mr. Hamil:

On Monday, March 26, 2001 at 6:30 a.m,. Kerr McGee Chemical LLC at Columbus, Mississippi discovered a spill of treated wastewater. Specifically, treated wastewater was overflowing the containment area. Immediate steps were taken to control the situation, which appeared to be restricted to plant property. Water was shut off going into the treated wastewater tank. The plant's storm water ditch was isolated with booms and absorbent materials. Water was then pumped out of the containment area into the separator.

After the spill was fully contained and evaluated, Ron Murphey, Plant Manager, implemented SPCC notifications. Nick Bock, Environmental Manager, was contacted in our Oklahoma City office. The National Response Center (NRC) was then contacted and made aware of the situation. Officer Jones at the NRC gave Mr. Murphey report # 560743. Mr. Murphey then contacted the Mississippi DEQ and spoke with Sharon Vinson. He made her aware of the situation and she informed him that someone from the DEQ would be contacting him. You then contacted us that afternoon and stated that after reviewing previously submitted DMR's for wastewater you were satisfied with the actions we had taken.

Sawdust was used to absorb any liquids on soils adjacent to the containment area. This material was put in a drum to be properly disposed of as F034 waste. There was approximately 300 gallons of treated wastewater spilled. The Corrective Action Investigation revealed that the discharge line to the effluent weir was blocked with biological solids causing the water to back up and overflow the treated wastewater tank. In addition, the investigation confirmed that the spill was confined to plant property. Corrective measures have been taken to prevent recurrence.

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

Should you require any additional information, please contact me at 662-328-7551.

Sincerely,
Kerr-McGee Chemical LLC.
Forest Products Division

Charles J. Swann
Assistant Plant Manager

Cc: A.L. Dooley
N. Bock
J.L. Sanders
R.P. Murphey
National Response Center

FOREST PRODUCTS

WATER, PRE-TREATMENT, MS0040021, CCH

LOWNDES CO.

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

February 27, 2001

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of January 2001. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

Charles J. Swann

Charles J. Swann
Assistant Plant Manager

Enclosures

cc: N. Bock

LOWNDES CO., PRETREATMENT, CLA
MSP0900?1

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

December 22, 2000

Mississippi Department of Natural Resources
Bureau of Pollution Control
Attention: Larry Hamil
P. O. Box 10385
Jackson, MS 39209

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of November 2000. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

Charles J. Swann
Assistant Plant Manager

Enclosures

RPM/cjs

cc: N. Bock
Steve Barksdale

LOWNDES CO., WATER PRE TREATMENT, MSP090021, CLH

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

November 27, 2000

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209
Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of October 2000. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

Charles J. Swann

Charles J. Swann
Assistant Plant Manager

Enclosures

RPM/cjs

cc: N. Bock
Steve Barksdale

CERTIFIED RETURN RECIEPT
7000 0520 0016 3783 2536

Forest Products

LOWNDES CO, PRE-TREATMENT, MS9090021, CLH

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

October 27, 2000

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209
Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of September 2000. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R. P. Murphey

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock
Steve Barksdale

Z 387 296 554

Forest Products

LOWNDES Co., PRE-TREAT CCH
MSP0900[illegible]

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH · COLUMBUS, MISSISSIPPI 39701

September 19, 2000

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209
Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of August 2000. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock
Steve Barksdale

Certified Return Reciept -
Z 344 416 191

Forest Products

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH · COLUMBUS, MISSISSIPPI 39701

September 1, 2000

CERTIFIED MAIL No. Z 344 416 190
Mr. John C. Taylor, P.E., R.P.G.
Environmental Permits Division
Office of Pollution Control
P.O. Box 10385
Jackson, Mississippi 39289-0385

Dear Mr. Taylor:

Re: Kerr McGee Chemical LLC
Lowndes County, Ms/MSP090021
Pretreatment Permit

This letter serves as written notice, as required in Part 1, B, 2 of Water Pollution Control Permit No MSP090021, that Kerr McGee Chemical LLC located in Columbus, Mississippi is in full compliance with the requirements and conditions of the above referenced permit. Should you have any questions or comments regarding this matter, please advise.

Sincerely,
Kerr McGee Chemical LLC
Forest Products Division

Charles J. Swann
Supervisor of Treating Operations

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

August 24, 2000

FILE COPY

CERTIFIED MAIL No. Z 375 693 372
Mr. Ronald P. Murphey, Plant Manager
Kerr-McGee Chemical LLC
2300 14th Avenue North
Columbus, Mississippi 39701

Dear Mr. Murphey:

Re: Kerr-McGee Chemical LLC
Lowndes County, Ms/MSP090021
Pretreatment Permit Reissuance

Enclosed please find enclosed the environmental permit for which the above referenced action has been taken. Please note the limitations, schedules of compliance, monitoring requirements, and monitoring reporting dates found in this permit.

This permit is modified in accordance with the provisions of the Mississippi Air and Water Control Law (Sections 49-17-1, et seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder, and under the authority granted to the Mississippi Environmental Quality Permit Board pursuant to Section 402(b) of the Federal Water Pollution Control Act.

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. If you have any further questions please feel free to give me a call at (601)961-5073.

Sincerely,

John C. Taylor, P.E., R.P.G.
Environmental Permits Division

Enclosure

OFFICE OF POLLUTION CONTROL
POST OFFICE BOX 10385 • JACKSON, MISSISSIPPI 39289-0385 • TEL: (601) 961-5171 • FAX: (601) 354-6612 • www.deq.state.ms.us
AN EQUAL OPPORTUNITY EMPLOYER

"Bock, Nick" <nbock@kmg.com> on 08/21/2000 12:52:35 PM

To: John Taylor/SW/OPC/DEQ@DEQ
cc: "Murphey, Ron" <RMURPHEY@KMG.com>, "Swann, Chuck" <CSWANN@KMG.com>
Subject: Columbus Light and Water Department Comment Letter

I have reviewed the revised comment letter dated August 18, 2000 of the Columbus Light and Water Department.
Kerr-McGee believes the lower pH limit should be raised to 5.5 standard units in the final permit.
Based upon our interpretation of the permit, Kerr-McGee is proceeding with the addition of additional/new aerators in the biological system without a formal permit modification.

We concur with the city's comments

Nick Bock
Manager, Regulatory Compliance and Environmental Affairs
Kerr-McGee Chemical LLC, Forest Products Division
Oklahoma City, OK
Telephone: 405-270-2394
KMCLLC FAX 405-270-2420
Direct FAX 405-270-4310
email: nbock@kmg.com

LOWNDES CO., [illegible]
MS0090021

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

August 18, 2000

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209
Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of July 2000. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock
Steve Barksdale

FOREST PRODUCTS

COLUMBUS
LIGHT AND WATER DEPARTMENT

420 4th Avenue South
P. O. Box 949
Columbus, Mississippi 39703
Telephone: (662) 328-7192
Fax: (662) 243-7408

August 18, 2000

Mr. John Taylor, P. E., P.G.
Industrial Permitting Section
Office of Pollution Control
Department of Environmental Quality
P. O. Box 10385
Jackson, MS 39289-0385

REFERENCE: KERR-MCGEE DRAFT PERMIT COMMENTS

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Sincerely,

Fred Hayslett,
General Manager

FH/dtc

cc: David R. Bowman, P.E.
Neel-Schaffer, Inc.

COLUMBUS
LIGHT AND WATER DEPARTMENT
520 4th Avenue South
P. O. Box 969
Columbus, Mississippi 39703
Telephone: (662) 328-7192
Fax: (662) 243-7408

Post-it® Fax Note 7671	Date	# of pages ▶ 1
To JOHN TAYLOR	From N BOCK	
Co./Dept.	Co.	
Phone #	Phone # 405 270 2594	
Fax # 601 354 6612	Fax #	

August 18, 2000

Mr. John Taylor, P. E., P.G.
Industrial Permitting Section
Office of Pollution Control
Department of Environmental Quality
P. O. Box 10385
Jackson, MS 39289-0385

REFERENCE: KERR-MCGEE DRAFT PERMIT COMMENTS

Dear Mr. Taylor:

In regard to our letter of August 14, 2000, our staff and engineer and Kerr-McGee have held further discussions. Below are our revised comments:

1. Since Kerr-McGee is in the process of adding treatment processes for additional phenol removal, Columbus Light and Water does not request permit limit changes at this time. If after this additional treatment is completed there are problems at the Columbus POTW, we will request futher review of the limits at that time.

2. The Kerr-McGee ph limit of 5. The City of Columbus has a sewer ordinance that establishes a ph range of 5.5 to 9.5. We request that the ph lower limit be 5.5 for Kerr-McGee.

Columbus Light and Water Department appreciates your consideration of these comments in your permit review process. As per our telephone conversation we do not need to review another draft of Kerr-McGee's pretreatment permit if these changes are acceptable to Kerr-McGee.

Sincerely,

Fred Hayslett,
General Manager

FH/dtc

cc: David R. Bowman, P.E.
Neel-Schaffer, Inc.

601 354 6612

COLUMBUS
LIGHT AND WATER DEPARTMENT

420 4th Avenue South
P. O. Box 949
Columbus, Mississippi 39703
Telephone: (662) 328-7192
Fax: (662) 243-7408

August 18, 2000

Mr. John Taylor, P. E., P.G.
Industrial Permitting Section
Office of Pollution Control
Department of Environmental Quality
P. O. Box 10385
Jackson, MS 39289-0385

REFERENCE: KERR-MCGEE DRAFT PERMIT COMMENTS

Dear Mr. Taylor:

In regard to our letter of August 14, 2000, our staff and engineer and Kerr-McGee have held further discussions. Below are our revised comments:

1. Since Kerr-McGee is in the process of adding treatment processes for additional phenol removal, Columbus Light and Water does not request permit limit changes at this time. If after this additional treatment is completed there are problems at the Columbus POTW, we will request futher review of the limits at that time.

2. The Kerr-McGee ph limit of 5. The City of Columbus has a sewer ordinance that establishes a ph range of 5.5 to 9.5. We request that the ph lower limit be 5.5 for Kerr-McGee.

Columbus Light and Water Department appreciates your consideration of these comments in your permit review process. As per our telephone conversation we do not need to review another draft of Kerr-McGee's pretreatment permit if these changes are acceptable to Kerr-McGee.

Sincerely,

Fred Hayslett
General Manager

FH/dtc

cc: David R. Bowman, P.E.
Neel-Schaffer, Inc.

NEEL-SCHAFFER, INC.
ENGINEERS • PLANNERS
Post Office Box 2100
Columbus, MS 39704-2100
Ph. (662) 328-4547
Fax No. (662) 328-8552

FAX Transmission Sheet

To: John Taylor FAX Phone No.: 601-354-6612

From: David Boorman

Date: 8-18-00 Time: 3:35 pm.

Total Number of Pages in this Transaction (Including Cover Sheet): 2

Comments:

Original in mail -

Please check the appropriate box below:

☐ 1 - Jackson	☐ 2 - Hattiesburg	☐ 4 - Baton Rouge
☐ 5 - Nashville	☐ ~~6 - Tupelo~~/Columbus	☐ 7 - Birmingham
☐ 8 - Atlanta	☐ 9 - Corporate	☐ Overhead
☐ Proposal	☐ Personal No.	☐ Project No. _____

FAX Operator for Neel-Schaffer: Rita Walsh

PLEASE NOTIFY US IF THE MESSAGE IS INCOMPLETE OR UNCLEAR. THANK YOU.

KERR-McGEE CHEMICAL LLC
KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

August 3, 2000

John Taylor P. E.
Office of Pollution Control
P.O. Box 10385
Jackson, MS 39289-0385

Re: Draft Wastewater Permit For Kerr-McGee Chemical LLC, Columbus, MS Wood Preserving Facility, MS0056472

Dear Mr. Taylor:

Kerr-McGee Chemical LLC has reviewed the Draft Wastewater Permit For Kerr-McGee Chemical LLC, Columbus, MS Wood Preserving Facility, dated July 27, 2000. We concur with the terms of the permit and recommend issuance of the permit. Kerr-McGee has no comments with respect to the draft permit, however, we desire to clarify three permit conditions contained in the draft.

Condition Part I., B.2, Schedule Of Compliance

It is our understanding that the facility shall submit a written notice to the Permit Board within 14 days of permit issuance that the facility the compliance status of the facility. This notice shall be sent to your attention at the above address.

Condition Part II., A.18, Hazardous Waste Release

This condition requires notification whenever a hazardous waste under 40 CFR part 261 is released. Our wastewater is classified as an EPA listed hazardous waste F034. Wastewaters are then specifically excluded from the definition of a solid waste in 40 CFR 261.4.(a).(2). when regulated under section 402 of the Clean Water Act. Per our discussions on August 3, 2000, Kerr-McGee Chemical therefore does not intend to make farther notifications with respect to Condition Part II., A.18 of the final permit.

Condition Part II., A.28, Other Specific Requirements

This condition requires the reporting of production rates from processes which generate wastewater discharged as required by 40 CFR 403.12(e)(3). We do not believe this condition is applicable to the facility. The 40 CFR 403.12(e)(3) provision is based upon industrial users which are subject to equivalent mass or concentrations limits established in 40 CFR 403.6(c). Our permit limits were neither established in accordance with procedures in 40 CFR 403.6(c) nor are limits expressed in terms of mass of pollutant per unit of production. **Therefore, Kerr-McGee does not intend to provide production rates specified in Condition Part II., A.28, Other Specific Requirements.** Should we have misinterpreted this provision please advice.

Should you have any questions, please telephone me at (405) 270- 2394.

Sincerely,

KERR-McGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Nick Bock
Manager, Regulatory Compliance and Environmental Affairs

cc: R. P. Michel, KMCLLC
R. P. Murphey, Facility

KERR-McGEE CHEMICAL LLC
KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

August 4, 2000

John Taylor P. E.
Office of Pollution Control
P.O. Box 10385
Jackson, MS 39289-0385

RE: Kerr-McGee Chemical Corporation, Forest Products Division
Columbus, MS Facility, Authorized Signatories for
Discharge Monitoring Reports (DMRs)

Dear Mr. Taylor:

In reference to Part II, Condition 12 of the Columbus, MS Water Pollution Control Permit (MS0056472) regarding authorized signatories for all correspondence relating to the discharge of wastewater from the Columbus, Mississippi wood preserving plant, I, Robert P. Michel, Vice President and General Manager of the Forest Products Division, hereby revoke all previous signatory authorizations for the Columbus, Mississippi facility.

I now designate and grant authorize signatories to Ronald P. Murphey (Plant Manager) and Charles Swann (Treating Supervisor) to act as authorized signatories for the Columbus, Mississippi facility until permit expiration on September 11, 2005.

If you have any questions or comments regarding this matter, please do not hesitate to contact me at (405) 270-2401 or Nick Bock at (405) 270-2420.

Sincerely,

KERR-McGEE CHEMICAL LLC
FOREST PRODUCTS DIVISON

R. P. Michel
Vice President & General Manager

RPM/nb

cc: N. E. Bock
R. P. Murphey
C. Swann

FOREST PRODUCTS

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

July 25, 2000

FILE COPY

Mr. Nick Bock, Environmental Manager
Kerr-McGee Chemical LLC
Forest Products Division
P. O. Box 25861
Oklahoma City, Oklahoma 73125

Dear Mr. Bock:

Re: Kerr-McGee Wood Preserving Facility
Lowndes County, MSP090021

Enclosed please find a copy of the proposed draft permit for the above referenced facility. The enclosed draft contains the permit conditions that we intend to incorporate as part of the final permit. This draft permit is not required to go to public notice since the new effluent discharge conditions are more stringent then the current permit.

If you have any comments concerning the contents of the draft permit please notify this office in writing no later than August 18, 2000. Our office intends to have the Permit Board approve the reissuance of this permit on September 12, 2000. If you would like to contact me to discuss any of these concerns please call me at (601)961-5235.

Sincerely,

John C. Taylor, P.E., R.P.G.
Environmental Permits Division

cc: Mr. Sam Head, General Manager, Columbus Water and Light Dept.

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

July 25, 2000

FILE COPY

Mr. Sam Head, General Manager
Light and Water Department
City of Columbus
P. O. Box 949
Columbus, Mississippi 39703

Dear Mr. Head:

Re: Kerr-McGee Wood Preserving Facility
Lowndes County, MSP090021

Enclosed please find a copy of the proposed draft permit for the above referenced facility. The enclosed draft contains the permit conditions that we intend to incorporate as part of the final permit. This draft permit is not required to go to public notice since the new effluent discharge conditions are more stringent then the current permit.

If you have any comments concerning the contents of the draft permit please notify this office in writing no later than August 18, 2000. Our office intends to have the Permit Board approve the reissuance of this permit on September 12, 2000. If you would like to contact me to discuss any of these concerns please call me at (601)961-5235.

Sincerely,

John C. Taylor, P.E., R.P.G.
Environmental Permits Division

OFFICE OF POLLUTION CONTROL
POST OFFICE BOX 10385 • JACKSON, MISSISSIPPI 39289-0385 • TEL: (601) 961-5171 • FAX: (601) 354-6612 • www.deq.state.ms.us
AN EQUAL OPPORTUNITY EMPLOYER

LOWNDES Co., PRE-TREATMENT, MSP090021

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

July 25, 2000

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209
Attention: Larry Hamil

Dear Mr. Hamil:

Attached, please find the Discharge Monitoring Report for the month of June 2000. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock
Steve Barksdale

Forest Products

MEMORANDUM

FILE COPY

TO: File

FROM: John C. Taylor JCT

SUBJECT: Pre-permitting Inspection for Pretreatment Permit
Kerr-McGee Chemicals - Columbus, Mississppi
Lowndes County/MSP090021

DATE: July 13, 2000

On July 11, 2000, I inspected the subject facility for the purposes of reviewing the site in relation to the submitted application dated March 17, 2000. Attending the inspection with me were: Mr. Nick Bock with Kerr-McGee, Mr. Ronald Murphy with Kerr-McGee and Mr. Michael Corn with AquAeTer consulting.

Areas of site observed during the inspection were the creosote process area consisting of several holding and scrubber units. The groundwater extraction separator for the pumping wells was also observed. These units appeared to be consistent with the application and no discrepancies were noted.

Finally the effluent sampling point was noted and reviewed. The flow is measured according to the permit by a totalizer system through a V-Notch weir. Grab samples are taken at this point in aliquots that are composited to simulate a 24-hour composite sampler.

YAHOO! MAPS

Welcome, Guest User

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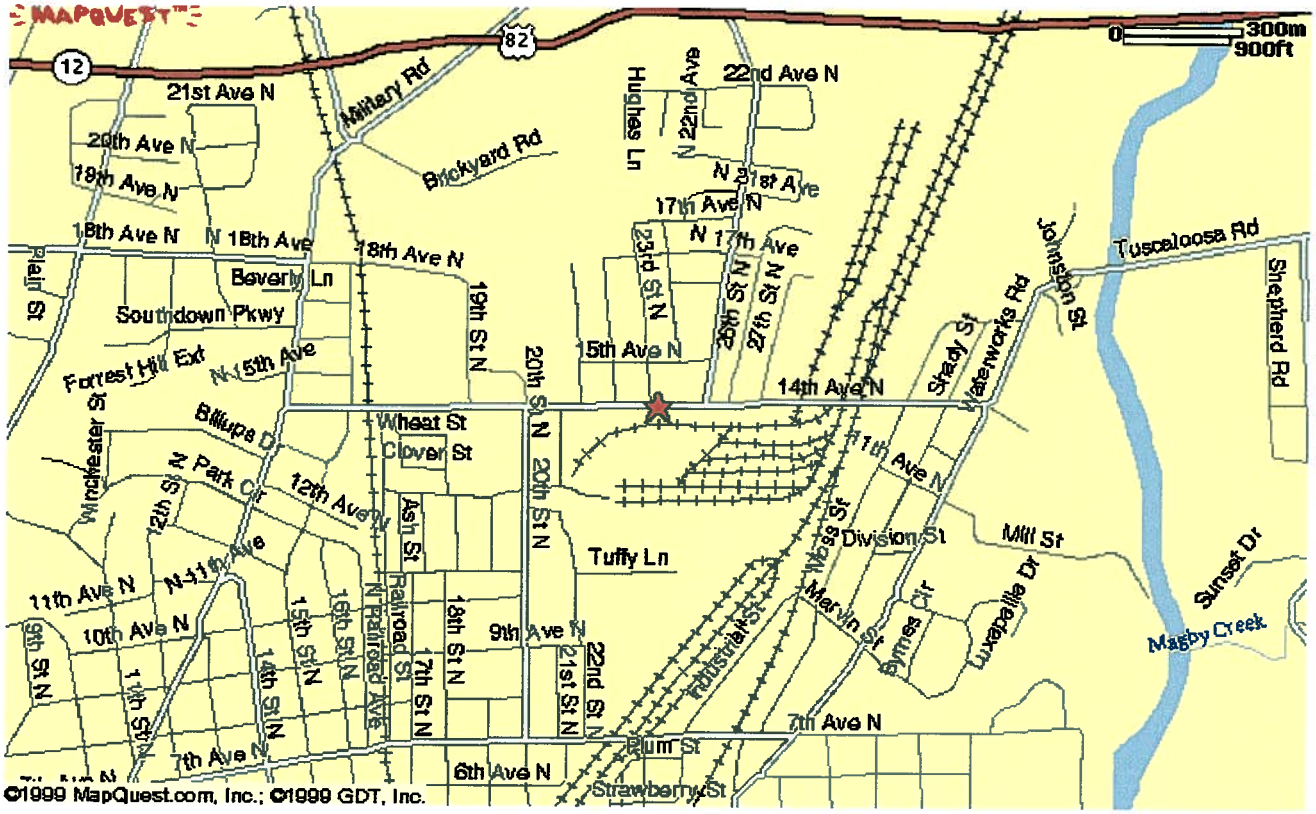
Interactive Map

2300 14 Avenue North, Columbus, MS 39701-2516

Zoom Out ◀ ◀ ◀ ◀ ◀ ◀ ◀ ◀ ● ▶ Zoom In



Pre-Permitting Inspection Photos
Kerr-McGee Chemicals
Columbus, Ms/Lowndes County
MSP090021
July 11, 2000

Photo 1 - Stevens Totalizer
Flow Monitoring System

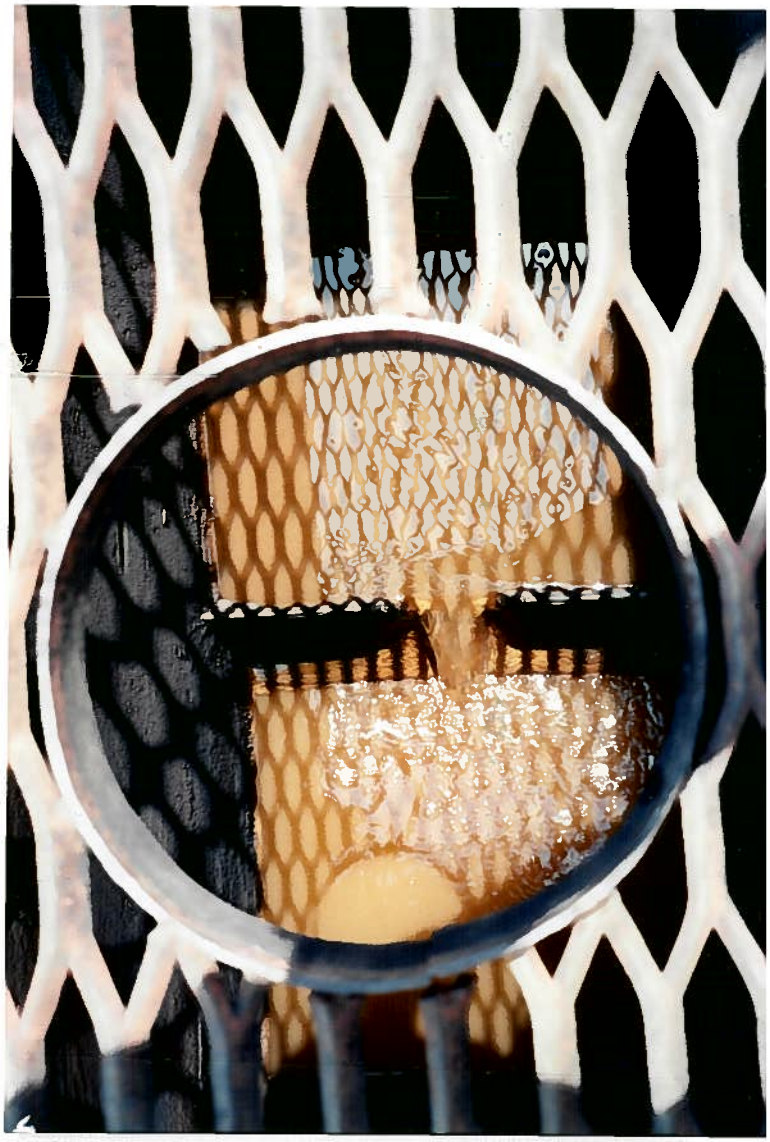


Photo 2 - V-Notch Weir for
Effluent Flow Monitoring

Photo 3 - Primary Separators and Clarifiers

Photo 4 - Settling Tanks and Oil/Water Separator with Vent Stack

LOWNDES CO., TREATMENT, CO.
MS0090021

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

June 23, 2000

RECEIVED
JUN 28 2000
Dept. of Environmental Quality
Bureau of Pollution Control

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209
Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of May 2000. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R P Murphey
R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

CERTIFIED Z 344416187

Forest Products

LOWNDES CO; [illegible] MSD0900 21

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

May 24, 2000

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of April 2000. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

Certified: Z 344416186

Forest Products

This is a fax from...

KERR-McGEE CHEMICAL LLC

FOREST PRODUCTS DIVISION
2300 14th Avenue North
Columbus, MS 39701
662-328-7551
fax: 662-329-3424

TO: Mr. John Taylor	FROM: Chuck Swann
Company: MSDEQ	Date: 4/20/00
Fax No. 601 354 6612	Pages, incl. Cover 3

Comments

Mr. Taylor,

Please find follow a copy of March's DMR to be submitted. The finalized copy's will be mailed to your office on Monday.

Thanks,

Chuck Swann

LOWNDES CO. TREATMENT, LLC
MSP090021

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

April 20, 2000

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of March 2000. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

Z 344 416 184

Forest Products

This is a fax from...

KERR-McGEE CHEMICAL LLC

FOREST PRODUCTS DIVISION
2300 14th Avenue North
Columbus, MS 39701
662-328-7551
fax: 662-329-3424

TO: JOHN TAYLOR	FROM: CHUCK SWANN
Company: MSDEQ	Date: 4/18/00
Fax No. 601-354-6612	Pages, incl. Cover 7

Comments

Mr. Taylor,
Please find following the DMR's for the Columbus facility for January + February 2000. We have not prepared March's DMR that is due April 28th. I will try to get the results of samples for the last week in March from my lab tommorrow and I'll fax you the March DMR then.
If you need any additional info, call me at 662-328-7551.

Thanks,

Chuck Swann

KERR-MCGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

March 28, 2000

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of February 2000. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

FOREST PRODUCTS

LOWNDES CO, [redacted] PERMIT NO.
Timber Group
PRE-T[redacted]

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

March 28, 2000

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of February 2000. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

FOREST PRODUCTS

Lowndes Co.

KERR-McGEE CHEMICAL LLC
KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

CERTIFIED MAIL
Return Receipt Requested.

March 17, 2000

Brad Shanks
Office of Pollution Control
P.O. Box 10385
Jackson, MS 39289-0358

Re: Kerr-McGee Chemical LLC, Columbus, MS Wood Preserving Facility, Pretreatment Permit Application No. MSP090021

Dear Mr. Shanks:

Please find enclosed a completed permit application for our Columbus, MS wood preserving facility. We have completed Section 17 constituent analysis to supplement our April 13, 1999 permit application.

We have provided as attachments to this application the following documents:

1. Pretreatment Permit Application Form 2-P
2. A location map of the facility.
3. Figure 1, Water Balance, depicting flow direction, average daily flows, process equipment and wastestream classifications.
4. Table 1, Wastewater Classification, uses the information provided in Table 1 and calculates the probable quantity of discharge of the various wastewater sources. Table I is used to verify that values used in Figure 1 are in equilibrium.
5. Table 2, Combined Wastestream Formula, applies 40 CFR 403.6(e) criteria to the various wastestreams in Figure 1 to calculate the alternate concentration limit. Our basis of wastestream classification is the footnotes associated with 40 CFR 403.6(e) and Appendix D/E of Part 403.
6. Table 3, Wastewater Classification, discusses our views of the application of the four tests required by the NRDC v. Costle Consent Decree.

We believe this approach is consistent with the requirements of the Clean Water Act. We are prepared, at your convenience, to meet and discuss the application of the combined wastestream formula to the Columbus facility should you desire. We would be willing to meet with you either in Jackson or at the facility.

In the interim, should you have questions please contact me at (405) 270-2394 or email at nbock@kmg.com.

Sincerely,

KERR-MCGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Nick Bock
Manager, Regulatory Compliance and Environmental Affairs

cc: R. P. Murphey, Facility

FOREST PRODUCTS

This is a fax from...

KERR-McGEE CHEMICAL LLC

FOREST PRODUCTS DIVISION
2300 14th Avenue North
Columbus, MS 39701
662-328-7551
fax: 662-329-3424

TO:	STEVE LADNER	FROM:	CHUCK SWANN
Company:	KMCCLLCFPD	Date:	3/9/00
Fax No.		Pages, incl. Cov	2

Comments

Steve,
Please find the results of samples taken for waste water permit.

Gwen Dauphin
Administrative Clerk

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

February 29, 2000

Nick Bock
KERR McGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION
123 Robert S. Kerr Avenue
Oklahoma City, OK 73102

Project: **EFFLUENT WEIR**
SWLO ID: **42030.01**

Dear Mr. Bock:

Enclosed please find the standard tabular report, DMOL summary report, and SEADATA deliverable for your sample received on February 10, 2000.

Thank you for choosing Southwest Labs. If, in your review, you should have any questions or require additional information, please do not hesitate to call.

Sincerely,

Randy Staggs
Project Officer

Enclosures

RES/slc

Cc: Facility Manager (Hardcopy & DMOL)
2300 14th Avenue
Columbus, MS 39701

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

February 28, 2000

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of January 2000. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

Forest Products

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH · COLUMBUS, MISSISSIPPI 39701

February 28, 2000

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of January 2000. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

FOREST PRODUCTS

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
James I. Palmer, Jr., Executive Director

February 25, 2000

FILE COPY

Mr. Nick Bock
Manager, Regulatory Compliance and Environmental Affairs
Kerr-McGee Chemical, LLC
Kerr-McGee Center
Oklahoma City, OK 73125

Dear Mr. Bock:

Re: Renewal of Pretreatment Permit No. MSP090021
Columbus, Lowndes County, Mississippi

This letter is to acknowledge receipt on February 22, 2000, of your letter dated February 11, 2000, in which you request an extension of the deadline for submitting the permit application to March 17, 2000. We expect that a complete application will be received in our office by March 17, 2000.

If you have any questions, please contact us at (601) 961-5171.

Very truly yours,

Brad Shanks
Environmental Permits Division

BS

OFFICE OF POLLUTION CONTROL
P.O. Box 10385 Jackson, MS 39289.0385 Phone 601.961.5171 Fax 601.354.6612

LOWNDES Co., WATER, PRETREAT, ETC
(File w/ inspection reports, & correspondence)

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

James I. Palmer, Jr., Executive Director

To: Kirk Shelton
From: Dewitt A. Spurgeon, NRO
Date: February 24, 1999

Subject: Compliance Monitoring
Kerr-McGee Chemical
Permit # 90021
Lowndes County

On February 22, 1999, I traveled to Lowndes County, to collect grab samples from the discharge at the above facility. I met with Mr. A. N. Helms, Plant Manager. Mr. Helms accompanied me to the sampling point at his facility.

The water I sampled was brown in color, with a slight oily sheen on the surface. I collected grab samples for Cr, Cu, As, Oil & Grease, Phenol and Pentachlorophenol. The pH of this water was 7.11 and the flow as .02468 mgd.

I found no problems during this sampling period.

If I can be of further assistance, please advise.

Respectfully,

Dewitt A. Spurgeon

DAS:das

OFFICE OF POLLUTION CONTROL
P.O. Box 10385 Jackson, MS 39289.0385 Phone 601.961.5171 Fax 601.354.6612

KERR-McGEE CHEMICAL LLC
KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

CERTIFIED MAIL
Return Receipt Requested.

February 11, 2000

Brad Shanks
Office of Pollution Control
P.O. Box 10385
Jackson, MS 39289-0358

Re: Kerr-McGee Chemical LLC, Columbus, MS Wood Preserving Facility, Pretreatment Permit N. MSP090021

Dear Mr. Shanks:

As a follow up to our telephone conversation on February 7, 2000 and your letter dated January 6, 2000, Kerr-McGee Chemical LLC (KMCCLLC) understands that all wastewater permit renewals require pollutants listed in Section 17 of the permit application to be quantified, should their presence be suspected. As I mentioned during our telephone conversation, most of these constituents, to my knowledge, have never been analyzed in wastewater at the facility.

We have contacted two analytical laboratories and have been informed that the analysis of all of the suspected constituents contained in our wastewater will not be completed in time for a March 1, 2000 submittal as specified in your January 6, 2000 letter. I have reviewed our files and have determined that in past permit renewal applications we used the same application form that was provided for the current permit renewal.

We therefore are requesting an extension of the deadline for submitting our permit application from March 1, 2000 to March 17, 2000. This extension will allow us to receive the completed analytical results from the laboratory, complete the application form and submit the application to the Office of Pollution Control.

Your written concurrence of the granted extension will be appreciated. In the interim, should you have questions please contact me at (405) 270-2394 or email at nbock@kmg.com.

Sincerely,

KERR-MCGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Nick Bock
Manager, Regulatory Compliance and Environmental Affairs

cc: R. P. Murphey, Facility

FOREST PRODUCTS

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

January 27, 2000

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of December 1999. Also find attached the DMR for the annual composite samples. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R. P. Murphey /cs

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

December 27, 1999

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of November 1999. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

Forest Products

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
James I. Palmer, Jr., Executive Director

January 6, 2000

R. P. Murphey, Plant Manager
Kerr-McGee Chemical Corporation
PO Box 906
Columbus, MS 39703-0906

Dear Mr. Murphey:

Re: Pretreatment Permit No. MSP090021
Columbus, Mississippi
Lowndes County

This letter is in response to the application for renewal of the facility's Pretreatment Permit, we received on April 14, 1999. Upon reviewing the application, we have noted the following deficiencies:

1. Item 17, Part A, you must provide the results of at least one analysis for every pollutant in the table. Please complete Part A.

2. Item 17, Part B, "Intake and Effluent Characteristics," for any pollutant marked "Believed Present," you must provide the results of at least one analysis for that pollutant. Please complete Part B for each pollutant marked "Believed Present."

3. Item 17, Part C, "Testing Requirements for Organic Toxic Pollutants Industry Category," you must provide the results of at least one analysis for any pollutant which you have marked either the "Testing Required" column or the "Believed Present" column. Please complete Part C for each pollutant identified by Table I. For Chromium, Copper, Arsenic, and Phenol, please provide a long term average.

   For Pentachlorophenol, the "Believed Absent" box has been marked. Upon reviewing the submitted DMRs for the past year, it appears that pentachlorophenol is present. Please modify Part C to include this pollutant and complete the effluent data section.

   Also, under Item 17 of the application, Part C, there are some pollutants for which you have not indicated whether or not they are believed present. Please check the appropriate column for each pollutant and resubmit Part C.

4. Please provide a more detailed process water flow diagram. This diagram should include items such as equipment, water flow rates throughout the process, where the process water connects to other discharges, and sampling points. Please note, the flow rates should add to a final discharge rate of 75,000 gallons/day as identified in your application.

5. Item 6, a location map of the facility must be provided.

We request that you correct the deficiencies noted above and resubmit the application by March 1, 2000 If you have any questions, please contact us at (601) 961-5171.

Very truly yours,

Brad Shanks
Environmental Permits Division

BS

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

November 23, 1999

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of October 1999. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

Forest Products

FILE COPY

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

James I. Palmer, Jr., Executive Director

October 27, 1999

Certified Mail No. P 411 701 098

Mr. Ron Murphy, Plant Manager
Kerr McGee Chemical Corporation
2300 14th Avenue
Columbus, MS 39701

Dear Mr. Murphy:

Re: Notice of Violations
Kerr McGee Chemical Corporation
Air Permit No. 1680-00020
EPA ID No: MSD990866329
Pretreatment Permit No. MSP090021
Lowndes County-Columbus, MS KAS

An inspection performed by the Mississippi Department of Environmental Quality and the U.S. Environmental Protection Agency on June 16, 1999, and a recent file review have revealed the following apparent violations at the referenced facility:

(1) The facility has not complied with design and operating requirements that require drip pads to have a curb or berm around the perimeter which represents a violation of 40 CFR 265.443 (a)(3). The end of the drip pad where trams are brought onto the drip pad does not have a curb or berm.

(2) The facility has not complied with design and operating requirements which require that drip pads must be operated and maintained in a manner to minimize tracking of hazardous waste or hazardous constituents off the drip pad as a result of activities by personnel or equipment. There was a stain on the ground at the end of the drip pad where trams are brought onto and taken off the drip pad. This is a violation of 40 CFR 265.443(j).

(3) The facility has not complied with the requirement of 40 CFR 265.441 for annual certification of the existing drip pad integrity. Assessment of existing drip pad integrity requires that an assessment must be reviewed, updated and re-certified annually until all upgrades, repairs, or modification necessary to achieve compliance with all of the standards of 264.443 of this subpart are complete. The record of this certification for 1997 was not found onsite during the inspection.

(4) The facility has not complied with the requirement to include the address of the emergency coordinator in the contingency plan which represents a violation of 40 CFR 265.52(d). It is required that the contingency plan must list the names, addresses, and phone numbers (office and home) of all persons qualified to act as the emergency coordinator and that this list must be kept up to date. Where more than one person is listed, one must be named as primary emergency coordinator and others must be listed in order in which they will assume responsibilities as alternates. The address for the emergency coordinator was not listed in the contingency plan.

(5) It is required that the contingency plan must include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment) where this equipment is required. The list must be kept up to date. In addition, the plan must include the location and a physical description of each item on the list, and a brief outline of its capabilities. The Kerr McGee Contingency plan does not include the location of all emergency equipment at the facility and does not provide a brief outline of safety equipment capabilities. This represents a violation of 40 CFR 265.52(e).

(6) The facility was unable to demonstrate compliance with the fuel usage limitations of 0.5% maximum sulfur content and the 216,000 gallons of fuel oil usage in any consecutive 12 month period for emission point AA-001, the 34 MMBTU/HR Cleaver Brooks D-6 Primary Boiler. Facility failed to monitor and document fuel oil usage each day and failed to calculate daily the total fuel oil usage of the current calendar year The facility failed to maintain these records at the facility. These failures represent violations of Emission Limitations and Monitoring Requirements of Part II, of the Synthetic Minor Operating Permit issued on June 6, 1997, and modified on June 12, 1998.

(7) The facility was unable to demonstrate compliance with the fuel usage limitations of 0.5% maximum sulfur content for emission point AA-028, the 11.7 MMBTU/HR natural gas or fuel oil fired, Cleaver Brooks Boiler. The facility failed to monitor and document fuel oil usage each day. The facility failed to maintain these records at the facility. These failures represent violations of Emission Limitations and Monitoring Requirements of Part II, of the Synthetic Minor Operating Permit issued on June 6, 1997, and modified on June 12, 1998. Failing to record and maintain records of the amounts of each fuel combusted during each day is also a violation of the New Source Performance Standards 40 CFR 60.48c (g).

(8) The facility failed to maintain a file for each storage vessel containing the name of the stored material, the estimated true vapor pressure, and the dates of storage for each material stored. This is a violation of Other Requirements of Part III, item 1, of the Synthetic Minor Operating Permit issued on June 6, 1997, and modified on June 12, 1998.

(9) The facility failed to notify MDEQ of the actual date of the initial startup for emission point AA-028. This is a violation of 40 CFR 60.7 (a)(3) and a violation of Other Requirements of Part III, item 3, of the Synthetic Minor Operating Permit issued on June 6, 1997, and modified on June 12, 1998. The facility also failed to notify MDEQ of the date maximum production was reached for emission point AA-028. This is a violation of Other Requirements of Part III, item 3, of the Synthetic Minor Operating Permit issued on June 6, 1997, and modified on June 12, 1998.

Also, during the RCRA review the description of training, documentation of training and the director's qualification were evaluated for 1996-1998. The last training took place on May 15, 1998. Training was scheduled for June 1999. During 1998, Samuel Clemens did not receive training as he had in previous years. In a meeting with Kerr McGee on September 2, 1999, the facility indicated Mr. Samuel Clemens was a second shift supervisor and that he did not have any Hazardous Waste Management responsibilities therefore training would not be required. Please submit additional information clarifying all job responsibilities of Mr. Clemens, as well as, an explanation of why Mr. Clemens has received past training.

The facility did not have RCRA financial assurance documentation immediately available. However, this information was faxed from Kerr McGee headquarters during the review. MDEQ recommends that financial assurance documentation be kept onsite at the facility.

Under RCRA, it is required that the contingency plan must include an evacuation plan for facility personnel where there is a possibility that an evacuation could be necessary. This plan must describe signals to be used to begin evacuation, evacuation routes, and alternative evacuation routes (in cases where the primary routes could be blocked by releases of hazardous waste fires). Kerr McGee maintains an evacuation plan in the Kerr McGee Emergency Response Plan. The plan meets all aspects of the above requirements. MDEQ requests Kerr McGee to include the evacuation plan in the Contingency Plan.

We request that you respond in writing by November 15, 1999, to these violations. This response should contain: (1) actions that have been taken to correct the violations, (2) schedule for correcting the violations, or (3) reasons that you believe the alleged violations did not exist.

The alleged violations outlined above will require enforcement action, including the levying of monetary penalties, to resolve. The Office of Pollution Control will recommend that a complaint be served and the matter scheduled for a commission hearing. If you wish to avoid a formal hearing, the opportunity exist for negotiating a settlement with the Office Staff. If you wish to avail yourself this opportunity, please contact us, as soon as possible, to set up a time and date for discussion of the matter.

For your review, we enclosed the Air, Water, and RCRA inspection reports.

If you have any questions, please contact me at (601) 961-5333.

Sincerely,

Kirk A. Shelton
Compliance Division

Enclosure:
cc: Mr. Steve Ladner, Kerr McGee
Mr. David Lee, MDEQ

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

October 26, 1999

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of September 1999. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

FOREST PRODUCTS

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

September 22, 1999

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of August 1999. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Ronald P. Murphey

Ron P. Murphey
Plant Manager

Enclosures

RPM/tjj

cc: N. Bock

FOREST PRODUCTS

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

August 26, 1999

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of July 1999. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

Assistant MSP090021
Lowndes County

July , 1999

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of June 1999. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R. P. Murphey
R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

Forest Products

FILE COPY

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

James I. Palmer, Jr., Executive Director

June 28, 1999

Ron Murphey
Plant Manager
Kerr McGee Chemical Corporation, Columbus
PO Box 906
Columbus, MS 39703

Dear Sir/Madam:

Re: Kerr McGee Chemical Corporation, Columbus
Columbus, Lowndes County, MS
Water Pre-Treatment Ref. No. - MSP090021

This letter is to acknowledge receipt of your application on April 14, 1999, for the above referenced permit. Within forty-five days after the date of receipt of the application, you will be notified either that the application is complete or of the major components required to complete the application.

If this application involves 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 application.

Should you have any questions, please contact Steve Spengler at (601) 961-5070.

Sincerely,

MC

Maggie Carney
Environmental Permits Division

cc: Ms. Gwin Ford, DEQ/OPC

OFFICE OF POLLUTION CONTROL
P.O. Box 10385 Jackson, MS 39289.0385 Phone 601.961.5171 Fax 601.354.6612

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

June 23, 1999

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of May 1999. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

Forest Products

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

May 19,1999

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of April 1999. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

Forest Products

KERR-MCGEE CHEMICAL CORPORATION
P.O. BOX 906 • COLUMBUS, MISSISSIPPI 39703-0906

April 27, 1999

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of March 1999. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey 98

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

KERR-MCGEE FOREST PRODUCTS

KERR-McGEE CHEMICAL CORPORATION
P.O. BOX 906 • COLUMBUS, MISSISSIPPI 39703-0906

April 13, 1999

Mr. Brad Shanks
Environmental Permits Division
Office of Pollution Control
P.O. Box 10385
Jackson, MS 39289-0385

Dear Mr. Shanks:

Re: Pre-Treatment Permit MSP090021
Kerr McGee Chemical LLC
Lowndes County, Columbus,MS

Please find enclosed our completed permit application. Should you require any additional information, please contact me at 601-328-7551.

Sincerely,

R.P. Murphey
Plant Manager

RPM/cjs

KERR-McGEE CHEMICAL LLC
2300 14TH AVENUE NORTH • COLUMBUS, MISSISSIPPI 39701

March 12, 1999

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of February 1999. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

FOREST PRODUCTS

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
James I. Palmer, Jr., Executive Director

FILE COPY

March 2, 1999

Mr. Ron Murphey
Plant Manager
Kerr McGee Chemical Corporation
PO Box 906
Columbus, MS 39703

Dear Mr. Murphey:

Re: Expiring Permits
Kerr McGee Chemical
Corporation, Columbus
Lowndes County, Columber MS

As you are probably aware, the environmental permits listed below are scheduled to expire within the next year. State and Federal regulations require that a permittee who wishes to continue to operate under such permit(s) shall submit a written request to the Director for reissuance at least 180 days prior to the permit expiration date. In order that the permit(s) can be reissued in a timely manner, we request that you complete the enclosed reapplication form(s) and return to our office by the date specified below.

Permit Program	*Permit Type*	*Permit Number*	*Permit Exp*	*App Due Date*
WATER	Pre-Treatment	MSP090021	10/10/1999	4/13/1999

Should you have any questions, please contact me at (601) 961-5171.

Sincerely,

Brad Shanks
Environmental Permits Division

OFFICE OF POLLUTION CONTROL
P.O. Box 10385 Jackson, MS 39289.0385 Phone 601.961.5171 Fax 601.354.6612

KERR-MCGEE CHEMICAL CORPORATION
P.O. BOX 906 • COLUMBUS, MISSISSIPPI 39703-0906

February 24, 1999

Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Kirk Shelton

Dear Mr. Shelton:

Attached, please find the Discharge Monitoring Report for the month of January 1999. If you have any questions please contact me at 601/328-7551.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION

R.P. Murphey
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock

FOREST PRODUCTS

Mississippi Department of Environmental Quality
Office of Pollution Control

PERMIT PROGRAM: WATER
PERMIT TYPE: PRE-TREATMEN
PERMIT NUMBER: MSP090021
DEQ CONTACT: Taylor, John
PERMIT ACTIVE: YES

APPLICATION

DUE:
RECEIVED: 04/14/1999
COMPLETENESS: 07/11/2000
APP TYPE: RE-ISSUE
RECEIPT LETTER: 06/28/1999
INCOMPLETE: 01/07/2000

ACTION DETAILS

ACTION DATE:
ACTION BY:
ACTION TYPE:
APPEAL START:
EXPIRATION:

DRAFT

ANT DRAFT TO SUPERVISOR:
DRAFT TO SUPERVISOR: 07/24/2000
ANT DRAFT TO SITE:
DRAFT TO SITE: 07/25/2000
ANT PUBLIC NOTICE:
PUBLIC NOTICE:
EARLY PUBLIC NOTICE:
END PUBLIC NOTICE:
NOTICE OF PUBLIC HEARING:
PUBLIC HEARING:
ANT DRAFT TO EPA:
DRAFT TO EPA:
ANT EPA COMMENTS:
COMMENTS RECEIVED:
ANT DRAFT PB/CHIEF:
READY FOR DECISION: 08/23/2000

RECEIVING STREAMS

WATER IS DISCHARGED: by pipe
into: Columbus POTW
then into:
then into:
then into:

MISC. DETAILS

PERMIT SR NUMBER:
PERMIT BASIN:
NOTES:

Mississippi Department of Environmental Quality
Office of Pollution Control

I-sys 2000 Permit Detail Report

Site Name: Kerr McGee Chemical Corporation, Columbus

PHYSICAL ADDRESS	
LINE 1:	2300 14th Avenue and 20th Street
LINE 2:	
LINE 3:	
MUNICIPALITY:	Columbus
STATE CODE:	MS
ZIP CODE:	39703-

MAILING ADDRESS	
LINE 1:	2300 Fourteenth Avenue North
LINE 2:	
LINE 3:	
MUNICIPALITY:	Columbus
STATE CODE:	MS
ZIP CODE:	39701-

OTHER INFORMATION	
MASTER ID:	001696
COUNTY:	Lowndes
REGION	NRO
SIC 1:	2491
AIR TYPE:	SYNTHETIC MINOR
HW TYPE:	TSD
SOLID TYPE:	
WATER TYPE:	INDUSTRIAL
BRANCH:	Chemical Branch
ECED CONTACT:	
,	
BASIN:	
Tombigbee River Basin	

AIR PROGRAMS	☐ SIP	☐ PSD	☑ NSPS	☐ NESHAPS	☐ MACT

ENTERED BY JD

Environmental Permits Division
Permit Action Form

General Information

Site Name: Kerr-McGee Chemicals LLC Forest Products Division
Address: 2300 14th Avenue North, Columbus, Mississippi 39701
Owner:
Operator:
SIC Code: 2491
Branch: Timber & Wood Products

Existing Site Permits

Permit Program	Permit Type	Permit Number	Permit Issuance Date

Coordination

Pre-permitting inspection date: 7/11/2000

Coordination Comments: Site checked out OK! ECED Scott Mills had no objections – 8/22/00

Public Participation

Permit	Start Date	End Date	Publication Sites
Not Applicable (Mass limits along with flow reduced – Permit is more stringent)			

Recommendations

Based on a review of the available information, the following permit actions are recommended:

Action	Permit Program	Permit Type	Permit No.	DEQ Contact
Reissuance	Water	Pretreatment	MSP090021	JCT

Proposed Hazardous Waste Permits			
Permit Type – Permit No.			***Permit Contact***
Permit Basis:			
Unit Name	***Unit Description***	***Activity***	***Coverage***
Waste Listing(s) and Description			

Proposed Water Permits				
Permit Type – Permit No.				***Permit Contact***
Pretreatment No. MSP090021				JCT
Permit Basis:				
Outfall	***WW Type***	***Flow (MGD)***	***Treatment Type***	***Receiving Stream***
001	Process & Treated GW	0.065	Oil-Water Separation & Biological	Columbus POTW Thence into Luxapallila Creek
Pollutants of Concern:			***Basis of Limitation:***	
O&G, Penta, Phenol, Cr, Cu & As			Water Quality & Toxicity Calculations (See Rationale)	

Proposed Air Permits	
Permit Type – Permit No.	***Permit Contact***
Greenfield:	
Permit Basis:	
Unit(s) Description:	
PSD Pollutants:	
Limits Requested:	

Proposed General Coverages	
Permit Type – Permit No.	***Permit Contact***
Permit Basis:	

KERR-McGEE CHEMICAL LLC
KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

July 12, 2000

John Taylor P. E.
Mississippi Department Of Environmental Quality
P.O. Box 10385
Jackson, MS 39289-0385

RE: Kerr-McGee Chemical LLC, Columbus, MS Wood Preserving Facility
Industrial Pretreatment Permit Application MSP090021

Dear Mr. Taylor:

As a follow up to our meeting in Columbus, MS on July 10, 2000, Kerr-McGee Chemical LLC (Kerr-McGee) has reviewed the March 17, 2000 industrial pretreatment permit application and determined that page 5 and page 18 of the permit application require revision. Specific revisions to page 5 and page 18 are outlined below.

Page No. 5, Section 1.e., Flow

Page No. 5 of the permit application has been revised and is enclosed for your review. Specifically, the long term daily average has been revised from 0.25 MGPD to 0.023 MGPD. However, the daily maximum discharge in the last 12 months was 0.032 MGPD and was 0.041 MGPD within the last three years. The basis of this revision to page No. 5 of the permit application is shown in Table 1.

We believe 1999 rainfall (48.2") does not represent average annual precipitation in the Columbus area and is not typical rainfall due to semi-drought conditions in the area as shown by annual precipitation data from the Luxapallia Station. . In fact, in 1979 precipitation exceeded 90 inches per year. During the past year (1999) precipitation was 48.2" as reported by a local television station. As we discussed in our meeting, our industrial discharge is sensitive to rainfall. Our current permit limits daily discharge to 0.075 MGPD. We are requesting authority to discharge 0.065 MGPD and thus sanction the occurrence of the 25 year storm event and to provide a contingency for years of abnormal precipitation. An allowable discharge of 0.065 MGPD will provide for this eventuality. In discussions with the POTW, it is our understanding that their system is operating at 75% of the designed capacity (1/4 of system is in standby) and they have holding capabilities during storm events as well.

Page No. 18, Section 1.9.A., Penta-chloro-phenol

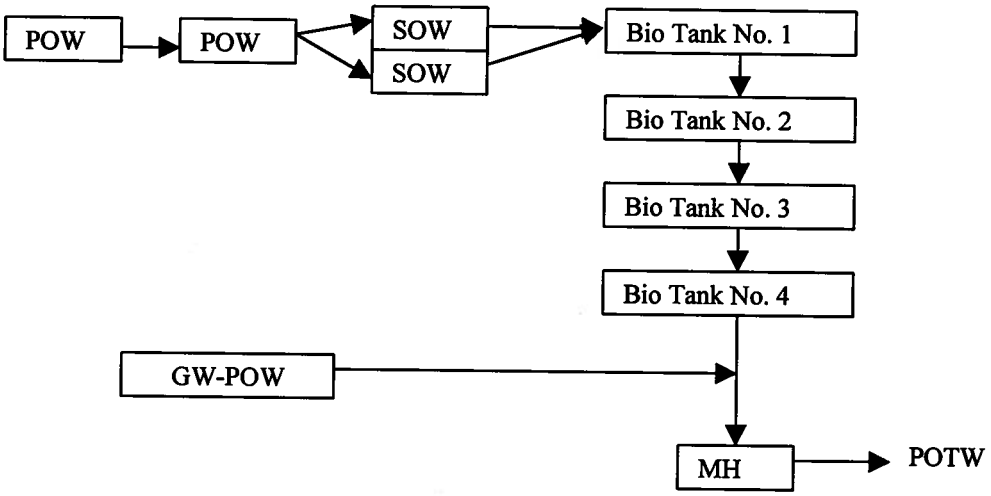
Kerr-McGee has reviewed the pentachlorophenol analysis of the facility's discharge over the past year, and has determined that pentachlorophenol has never been detected in the facility's wastewater discharged during that period. Table 2 provides these data for your review. Based upon 1999 monitoring data of our wastewater discharge, we do not believe pentachlorophenol is present in our discharge. We therefore have revised and enclosed Page 18 of the permit application (Section 1.9.A., Penta-chloro-phenol) to reflect our belief.

We are requesting that the discharge limitations contained within our 1994 permit be set at the same pentachlorophenol limitation in our new permit. We recommend the frequency of pentachlorophenol analysis in the wastewater discharge be increased from two times per year to four times per year (quarterly) and thus determine if seasonal variations occur.

Planned Changes To The Industrial Pretreatment System

As we discussed, Kerr-McGee desires to increase the number and size of our aerators in our biological treatment unit. As a certified ISO 14001 facility, we are committed to pollution prevention and thus desire to provide additional treatment to our industrial wastewaters. A schematic of current system wastewater treatment system is shown below:

FOREST PRODUCTS



We believe, based on conversations with you, that increase in aerator size and the addition of an aerator to Tank No. 1 do not require an industrial wastewater discharge permit modification. Specifically, it is our intent to improve the efficiency of our biological system (decrease the total phenol levels in the discharge to the POTW) by making the following changes.

Biological System Tank	Current Aeration Size (Horsepower)	Proposed Aerator Size (Horsepower)
No. 1	NA	15
No. 2	15	15
No. 3	10	10
No. 4	5	15
Total	30	55

Therefore it is our intent, during 2000, to proceed with the aforementioned planned changes to the biological system aerators without a formal permit modification. Your written confirmation regarding this matter will be appreciated. Should you desire additional information, please contact me.

It is my understanding that you will issue a final permit for our Columbus facility within a few weeks. In the interim, should you have questions or desire additional information please telephone me at (405) 270-2394 or email me at nbock@kmg.com.

Sincerely,

KERR-MGGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Nick Bock
Manager, Regulatory Compliance and Environmental Affairs

cc: R. P. Murphey, Facility
R. P. Michel, KMCLLC
S. Barksdale, CLW

Kerr-McGee Chemical, LLC

Industrial Pretreatment Permit Application Revision

Columbus, MS

July 14, 2000

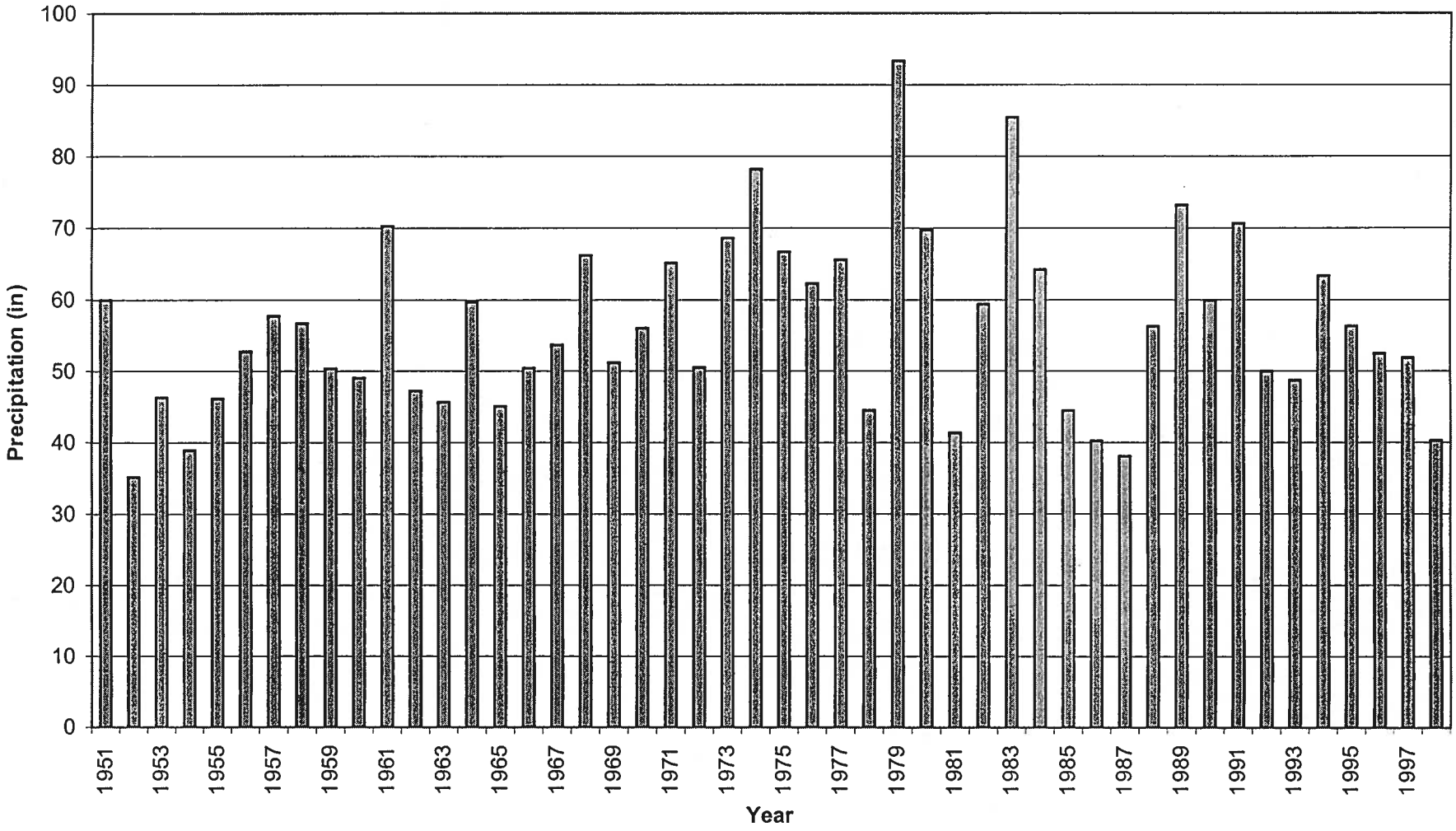
Table 1

WWT Flow (MGD)	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Max	Min.	No. Values	Average
Maximum (MGD)	1999	0.031	0.031	**0.032**	0.031	0.029	0.028	0.029	0.027	0.028	0.029	0.029	0.029	0.032	0.027	12	0.029
Average (MGD)	1999	0.025	**0.025**	0.024	0.023	0.023	0.023	0.023	0.024	0.024	0.023	0.021	0.019	0.025	0.019	12	0.023

Table 2

PCP Analysis (mg/L)		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Pentachlorophenol 1999 (mg/L)	(Final Effluent)	1999												<0.007
Pentachlorophenol 1999 (mg/L)	(Final Effluent)	1999												<0.023

Annual Precipitation
1951-1998
Columbus Luxapallia Station



Station: **COLUMBUS LUXAPALLILA**
Parameter: Precipitation
Year: 1981-1998
State: MISSISSIPPI
County: LOWNDES

ID: 1880
Statistic: Sum
Latitude: 33:28:00
Longitude: 088:23:00
Elevation: 145.00

Monthly Data: Total

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Min	Max
1981											1.61	3.74	5.35	1.61	3.74
1982	8.62	5.90	1.80	10.31	2.46	5.23	4.36	1.46	1.26	4.77	5.80	7.42	59.39	1.26	10.31
1983	5.14	10.78	7.20	10.39	11.64	6.04	2.43	0.890	6.30	2.97	6.88	14.78	85.44	0.890	14.78
1984	4.37	4.99	4.85	10.34	5.65	6.89	4.76	4.88	0.500	6.86	7.48	2.59	64.16	0.500	10.34
1985	4.24	5.09	1.98	4.30	1.88	5.40	2.61	4.75	2.88	6.68	0.880	3.75	44.44	0.880	6.68
1986	0.840	1.89	3.96	0.510	4.38	1.39	2.26	5.34	3.14	5.85	6.59	4.01	40.16	0.510	6.59
1987	4.66	7.01	3.71	1.03	3.03	3.63	1.72	2.84	2.73	0.120	4.05	3.48	38.01	0.120	7.01
1988	4.38	4.37	3.38	3.24	3.34	0.030	5.81	5.86	7.23	6.84	8.34	3.46	56.28	0.030	8.34
1989	7.90	7.45	4.87	3.22	8.22	11.95	5.96	4.09	6.96	1.65	6.33	4.58	73.18	1.65	11.95
1990	8.68	9.96	7.08	2.28	5.95	4.23	0.810	0.230	1.43	1.69	4.31	13.26	59.91	0.230	13.26
1991	2.71	8.74	7.60	12.73	11.29	3.39	2.18	7.32	3.98	3.17	3.19	4.31	70.61	2.18	12.73
1992	3.66	4.42	3.51	3.33	0.790	4.74	6.78	4.97	2.61	1.97	7.91	5.27	49.96	0.790	7.91
1993	5.75	3.93	4.22	2.51	7.06	5.31	1.89	2.89	4.00	3.30	4.78	3.04	48.68	1.89	7.06
1994	5.93	5.24	8.30	3.06	3.11	9.10	10.00	1.07	4.11	4.50	3.64	5.28	63.34	1.07	10.00
1995	4.79	4.46	5.16	9.46	2.14	2.72	5.77	5.49	3.33	4.50	3.95	4.56	56.33	2.14	9.46
1996	6.93	2.10	6.15	4.77	1.04	4.51	6.94	4.76	3.77	1.76	5.47	4.28	52.48	1.04	6.94
1997	7.31		3.24	4.21	5.34	7.61	2.91	2.23	3.01	6.52	4.15	5.35	51.88	2.23	7.61
1998	7.76	5.53	3.22	4.96	2.32	1.67	10.87	3.05	0.330	0.520			40.23	0.330	10.87

2. EFFLUENT					3. UNITS (specify if blank)		4.INTAKE (optional)		
AXIMUM 30 DAY LUE if ailable)		c.LONG TERM AVRG. VALUE (if available)		d.NO. OF ANAL-YSES			a.LONG TERM AVERAGE VALUE		b.NO. OF ANAL-YSES
NCENT-ATION	(2) MASS	(1) CONCENT-RATION	(2) MASS		a. CONCENT-RATION	b. MASS	(1) CONCENT-RATION	(2) MASS	
ALUE 77,000 Gal/Mon.		VALUE 0.023 M-Gallons/day		12	M-Gallons /Month		VALUE 0.023 Gallon/Month		12
ALUE 30°F (estimate)		VALUE 60°F (estimate)		1	EC		VALUE 60°F (estimate)		°F
ALUE 90°F (estimate)		VALUE 90°F (estimate)		1	EC		VALUE 90°F (estimate)		°F
MIN 5.9	MAX 7.9			36	STANDARD UNITS				

STATE OF MISSISSIPPI
WATER POLLUTION CONTROL PERMIT

DRAFT
7/24/00 jat

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

THIS CERTIFIES THAT

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION
COLUMBUS, MISSISSIPPI

has been granted permission to discharge wastewater into

Columbus POTW (MS0023868)

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: September 11, 2005 **Permit No: MSP090021**

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	(lbs/day)	(lbs/day)	Other Units (Specify)		Measurement Frequency	Sample Type
	Annual Avg.	Annual Max.	Annual Avg.	Annual Max.		
Pentachlorophenol (EPA Method 604 or 625)	0.65	0.97	1.19 mg/l	1.79 mg/l	Twice/Year	Grab
Chromium, Total Recoverable (EPA Method 218.1, 218.2 or 200.7)	------	1.28	Report (mg/l)	2.36 mg/l	Twice/Year	Composite*
Arsenic, Total Recoverable (EPA Method 206.2, 206.3, or 200.7)	------	1.28	Report (mg/l)	2.36 mg/l	Twice/Year	Composite*
Copper, Total Recoverable (EPA Method 220.1, 220.2, or 200.7)	------	1.60	Report (mg/l)	2.95 mg/l	Twice/Year	Composite*

2. The pH shall not be less than 5.0 standard units nor greater than 9.5 standard units and shall be monitored once per week with a grab sample of the effluent.

3. 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.

*Composite samples should consist of manual grab samples of equal aliquot volumes taken every four hours for the duration of the discharge during the 24-hour period.

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.

(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:

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

(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:

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(l)

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

a) All permit applications shall be signed as follows:

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

a) The permittee shall notify the Mississippi Department of Environmental Quality, the EPA Regional Waste Management Division Director, State hazardous waste

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

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

Rationale (Reissuance)
Kerr-McGee Chemical Corporation
Columbus, Mississippi
MSP090021
July 1, 2000

I. **Industrial Information**

A. Nature of Operation: Wood Preserving and Groundwater Remediation Operations.

B. Flow for 001 is 0.041 MGD (Maximum)/Long Term Average is 0.025 MGD(Process WW and Remediated Groundwater). Requested permitted flow is 0.065 MGD for the consideration of rainfall drainage.

C. Applicable Federal Guidelines - 40 CFR Part 429.85 and 429.95

II. **Other Contributing Sources: Johnson Electric Automotive Motor MSP090048 - Formerly United Technologies Electro Systems**

A. Nature of Operation: Phosphating and Plating Lines.

B. Flow for 001 - Q_W = 0.036 MGD

C. Parameters common to permit: Copper and Chromium.

North American Precision Casting Corporation - MSP091223

A. Nature of Operation: Investment Casting and Metal Molding

B. Flow for 001 - 0.001 MGD (Q_W = 0.00145 MGD in Batch Flows)

C. Parameters common to Permit: Copper

Keystone Rustproofing, Inc.

A. Nature of Operation: Electroplating Point Source (Part 413)

B. Flow for 001 - 0.0442 MGD

C. Parameters common to Permit: Copper and Chromium

III. **POTW Information**

A. Columbus WWTF (MS0056472)

B. Effluent Flow: 7.04 MGD (Long Term Average from 12/98 to 2/00) = Q_{POTW}

C. Receiving Stream: Luxapallila Creek ($7Q_{10}$ Flow = 38.1 MGD)

IV. Pertinent Industrial Loading Calculations

A. X_{ta} - Current maximum permitted loads

Parameter	Johnson (lbs/day)	North Amer. (lbs/day)	Keystone (lbs/day)	X_{tat} (lbs/day)
Copper	5.89	0.013	1.66	7.56
Chromium	4.83	-----	2.58	7.41

B. X_t - Maximum of average discharge values from DMRs using 12 months of data.

Parameter	Johnson (lbs/day)	X_{tt} (lbs/day)
Copper	0.063	0.063
Chromium	0.033	0.033

Note: Current DMR data on North American is unavailable at this time.

V. Background/Domestic Loading Calculations

Background Loading (BG_L), lbs/day = 8.34($BG_{C(1)}$, mg/l)(Q_{POTW} - $SumQ_{Industrial}$, MGD)

BG_L(Cu) = 1.93 lbs/day

BG_L(Cr) = 1.71 lbs/day

BG_L(As) = 0.18 lbs/day

BG_L(Fe) = [7 MGD(8.34)(UNKNOWN)] - [0.018 MGD(8.34)(15.5 mg/l)]

= UNKNOWN? Assumed Zero

BG_L(Mn) = UNKNOWN? Assumed Zero

BG_L(Mg) = UNKNOWN? Assumed zero

BG_L(Phenol) = 48.77 lbs/day

BG_L(Penta) = 0.0 lbs/day (Assumed from Revised Application)

(1) BG_C = Background concentration in domestic wastewater before headworks. Total Influent Lbs/day minus the Industry Lbs/day divided by the influent flow rate times 8.34. These numbers are estimated or approximated based on current DMR and application sampling data. The background levels for the parameters iron, manganese and magnesium could not be ascertained due to the unavailability of influent data. See Appendix A attached!

VI. **Water Quality Analysis**

A. $IWC = Q_{POTW}/(Q_{7Q10} + Q_{POTW})$

$IWC = 7.04/(38.1 + 7.04) = 0.156$ or 15.6% (> 1% so Acute and Chronic screening applies)

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

$AWQC = 8.34(Q_{POTW} + Q_{7Q10})(^{(2)}C_{CRIT})/(1-^{(3)}R_{POTW})$

AWQC(As) = 8.34(7.04 + 38.1)(0.36)/(1-.45) = 246 lbs/day

AWQC(Cu) = 8.34(45.14)(0.00885)/(1-.87) = 25 lbs/day

AWQC(Cr) = 8.34(45.14)(0.311)/(1-.82) = 650.45 lbs/day

$AWQC_{(Phenol)}$= 8.34(45.14)(0.3)/(1-.59) = 275 lbs/day

$AWQC_{(Penta)}$ = 8.34(45.14)(0.00332)/(1-.25) = 1.67 lbs/day

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

AWQC(As) = 8.34(45.14)(0.19)/(1-.45) = 130 lbs/day

AWQC(Cu) = 8.34(45.14)(0.00628)/(1-.87) = 18 lbs/day

AWQC(Cr) = 8.34(45.14)(0.101)/(1-.82) = 211.24 lbs/day

$AWQC_{(Phenol)}$= 8.34(45.14)(0.102)/(1-.59) = 94 lbs/day

$AWQC_{(Penta)}$= 8.34(45.14)(0.0021)/(1-.25) = 1.05 lbs/day

(2) C_{CRIT} is the acute or chronic water quality criteria value as given in the State's water Quality Criteria for State Waters.

(3) R_{POTW} is the removal efficiency that the POTW exhibits or could be expected to have given the facility's past application screening data. The EPA "Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program" Tables 3-9 and 3-10 were utilized to get expected median values for removal efficiency for the parameters: arsenic and chromium since valid screening data could not be ascertained.

VII. POTW Inhibition Analysis

A. Allowable Loading at POTW

$HWI_L = 8.34(Q_{POTW})(^{(4)}C_{INH})$

$HWI_L(As) = 8.34(7.04)(0.1) = 6$ lbs/day

$HWI_L(Cu) = 8.34(7.04)(1) = 59$ lbs/day

$HWI_L(Cr) = 8.34(7.04)(1) = 59$ lbs/day

$HWI_{L(Phenol)}$= 8.34 (7.04)(50) = 2936 lbs/day

$HWI_{L(Penta)}$= 8.34(7.04)(0.95) = 56 lbs/day

(4) C_{INH} is the minimum inhibition threshold level as given in Table 3-2 of the EPA "Guidance Manual on the Development and Implementation of Local discharge Limitations Under the Pretreatment Program."

VIII.

Limiting Case Summary Table

If AWQC < HWI_L
L_C = AWQC

If HWI_L < AWQC
L_C = HWI_L

Parameter	HWI_L lbs/day	Acute AWQC lbs/day	Chronic AWQC lbs/day	Acute L_C lbs/day	Chronic L_C lbs/day	BG_L lbs/day	BG_L < L_C Chronic Pass/ Fail
Arsenic	6	246	130	6	6	0.18	Pass
Copper	59	25	18	25	18	1.93	Pass
Chromium	59	650	211	59	59	1.71	Pass
Phenol	2936	275	94	275	94	48.77	Pass
Penta	56	1.67	1.05	1.67	1.05	0.0	Pass

IX. Uniform Concentration Method Based on 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 and chronic concentrations using the Concentration Limit Method Based on Industrial Contributory Flow method as described in EPA Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program.

Equations: $P_{AI} = (L_C, \text{ lbs/day} - BG_L, \text{ lbs/day}) \frac{Q_I, \text{ MGD}}{Q_T, \text{ MGD}}$

$$C_{ALLOW}, \text{ mg/l} = \frac{P_{AI}, \text{ lbs/day}}{8.34 (Q_I, \text{ MGD})}$$

where,
P_{AI} = Permit Allocation for Industry
Q_T = Total Industrial Contributory Flow for Pertinent Pollutant
Q_I = Requested Industrial Discharge by Applicant 0.05 MGD
L_C = Limiting Case Loading
BG_L = Background Loading

Acute Calculations:

Arsenic
$P_{AI} = (6 - 0.18)(0.065/0.065) = 5.82$ lbs/day
$C_{ALLOW} = 5.82/(8.34 \times 0.065) = 10.74$ mg/l

Copper
$P_{AI} = (25 - 1.93)(0.065/(0.065 + 0.036 + 0.00145 + 0.0442)) = 10.23$ lbs/day
$C_{ALLOW} = 10.23/(8.34 \times 0.065) = 18.87$ mg/l

Chromium
$P_{AI} = (33 - 1.71)(0.065/(0.065 + 0.036 + 0.0442)) = 14.01$ lbs/day
$C_{ALLOW} = 14.01/(8.34 \times 0.065) = 25.84$ mg/l

Phenol
$P_{AI} = (275 - 48.77)(0.065/0.065) = 464.23$ lbs/day
$C_{ALLOW} = 464.23/(8.34 \times 0.065) = 856.35$ mg/l

Penta
$P_{AI} = (1.67 - 0.0)(0.065/0.065) = 1.67$ lbs/day
$C_{ALLOW} = 1.67/(8.34 \times 0.065) = 3.08$ mg/l

Chronic Calculations:

Arsenic P_{AI} = (6 - 0.18)(0.065/0.065) = 5.82 lbs/day
C_{ALLOW}= 5.82/(8.34 x 0.065) = 10.74 mg/l

Copper P_{AI} = (18 - 1.93)(0.065/(0.065 + 0.036 + 0.00145 + 0.0442))
= 7.12 lbs/day
C_{ALLOW}= 7.12/(8.34 x 0.065) = 13.14 mg/l

Chromium P_{AI} = (22 - 1.71)(0.065/(0.065 + 0.036 + 0.0442))
= 9.08 lbs/day
C_{ALLOW}= 9.08/(8.34 x 0.065) = 16.76 mg/l

Phenol P_{AI} = (175 - 48.77)(0.065/0.065) = 126.23 lbs/day
C_{ALLOW}= 126.23/(8.34 x 0.065) = 232.85 mg/l

Penta P_{AI} = (1.05 - 0.0)(0.065/0.065) = 1.05 lbs/day
C_{ALLOW}= 1.05/(8.34 x 0.065) = 1.94 mg/l

X. **Summary Table**

Parameter	BG_{CONC} Domestic[5] Concentration	Allowable Limiting Case Concentration Acute	Chronic	Max. Concen. Listed From Application, ppm	Part 429 Categorical Standard
Arsenic	0.0031 mg/l	10.74	10.74	0.01	4 ppm
Copper	0.0335 mg/l	18.87	13.14	0.11	5 ppm
Chromium	0.0296 mg/l	25.84	16.76	0.02	4 ppm
Phenol	0.8366 mg/l	856.35	232.85	1500	-----
Penta	0.1718 mg/l	3.08	1.94	0.0	-----

(5) See Appendix A where background data was compiled from the application screening application supplied by the POTW in 1997.

XI. **Existing Limits**

Parameter	Monthly Average Lbs/day	mg/l	Monthly Maximum Lbs/day	mg/l
Flow			0.075 MGD	
Oil & Grease		Report		59
Total Phenols	32.6	52	48.8	78

	Annual Average		Annual Maximum	
	Lbs/day	mg/l	Lbs/day	mg/l
Penta	0.744	1.19	1.12	1.79
Chromium		Report	1.48	2.36
Copper		Report	1.85	2.95
Arsenic		Report	1.48	2.36

XII. **Proposed Limits**

Except for the flow rate the existing limits will apply since the compliance history of the applicant indicates that the existing technologies used for pretreatment are adequate. The flow limit of 0.075 MGD in the existing permit will be reduced to 0.065 MGD since the application shows a maximum rate of 0.041 MGD. An additional 0.024 MGD will be added for rainfall drainage considerations. This reduction in permitted flow will also reduce the corresponding mass limits of the existing permit. These new limit values are described in the draft permit. Since this draft will be more stringent than the current permit public notice will not be required.

APPENDIX A

Domestic Background Calculations

COLUMBUS POTW (MS0023868)

	Qpotw (MGD)	Penta (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Phenol (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Silver (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)
12/03/96	7.50	0.1000	6.2550	-----	6.2550	0.5000	31.2750	-----	31.2750	ND	ND	-----	-----
12/17/96	7.50	0.1000	6.2550	-----	6.2550	1.4000	87.5700	-----	87.5700	ND	ND	-----	-----
01/08/97	7.68	0.2000	12.8102	-----	12.8102	0.9000	57.6461	-----	57.6461	ND	ND	-----	-----
01/21/97	7.68	0.5000	32.0256	-----	32.0256	2.5000	160.1280	-----	160.1280	ND	ND	-----	-----
02/04/97	7.77	0.2000	12.9604	-----	12.9604	0.5000	32.4009	-----	32.4009	ND	ND	-----	-----
02/18/97	7.77	0.0400	2.5921	-----	2.5921	0.0100	0.6480	-----	0.6480	ND	ND	-----	-----
03/04/97	7.94	0.0600	3.9732	-----	3.9732	0.0700	4.6354	-----	4.6354	ND	ND	-----	-----
03/18/97	7.94	ND	ND	-----	-----	ND	ND	-----	-----	ND	ND	-----	-----
04/08/97	7.72	ND	ND	-----	-----	ND	ND	-----	-----	ND	ND	-----	-----
04/22/97	7.72	ND	ND	-----	-----	ND	ND	-----	-----	ND	ND	-----	-----
05/06/97	7.67	ND	ND	-----	-----	ND	ND	-----	-----	ND	ND	-----	-----
05/21/97	7.67	ND	ND	-----	-----	ND	ND	-----	-----	ND	ND	-----	-----

Penta BG = 0.1718 mg/L Phenol BG = 0.8366

	Qpotw (MGD)	Arsenic (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	B eryllium (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Cadmium (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)
12/03/96	7.50	ND	ND	-----	-----	ND	ND	-----	-----	ND	-----	0.0085	-----
12/17/96	7.50	ND	ND	-----	-----	ND	ND	-----	-----	ND	-----	0.0085	-----
01/08/97	7.68	ND	ND	-----	-----	ND	ND	-----	-----	0.0100	0.6405	0.0057	0.6348
01/21/97	7.68	ND	ND	-----	-----	ND	ND	-----	-----	ND	-----	0.0057	-----
02/04/97	7.77	ND	ND	-----	-----	ND	ND	-----	-----	ND	-----	0.0067	-----
02/18/97	7.77	ND	ND	-----	-----	ND	ND	-----	-----	ND	-----	0.0067	-----
03/04/97	7.94	ND	ND	-----	-----	ND	ND	-----	-----	ND	-----	0.0064	-----
03/18/97	7.94	ND	ND	-----	-----	ND	ND	-----	-----	ND	-----	0.0064	-----
04/08/97	7.72	ND	ND	-----	-----	ND	ND	-----	-----	ND	-----	0.0048	-----
04/22/97	7.72	ND	ND	-----	-----	ND	ND	-----	-----	ND	-----	0.0048	-----
05/06/97	7.67	ND	ND	-----	-----	ND	ND	-----	-----	ND	-----	0.0097	-----
05/21/97	7.67	ND	ND	-----	-----	ND	ND	-----	-----	0.0100	0.6397	0.0097	0.6300

Cd BG = 0.0099

	Qpotw (MGD)	Cyanide (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Chromium (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Copper (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)
12/03/96	7.50	ND	ND	0.0035	-----	ND	ND	0.0116	-----	0.0600	3.7530	0.0206	3.7324
12/17/96	7.50	ND	ND	0.0035	-----	ND	ND	0.0116	-----	0.0400	2.5020	0.0206	2.4814
01/08/97	7.68	ND	ND	0.0019	-----	ND	ND	0.0181	-----	0.0600	3.8431	0.0200	3.8231
01/21/97	7.68	ND	ND	0.0019	-----	ND	ND	0.0181	-----	0.0200	1.2810	0.0200	1.2610
02/04/97	7.77	0.0200	1.2960	0.0036	1.2924	ND	ND	0.0330	-----	0.0100	0.6480	0.0227	0.6253
02/18/97	7.77	ND	ND	0.0036	-----	ND	ND	0.0330	-----	0.0500	3.2401	0.0227	3.2174
03/04/97	7.94	ND	ND	0.0018	-----	ND	ND	0.0334	-----	0.0100	0.6622	0.0204	0.6418
03/18/97	7.94	ND	ND	0.0018	-----	0.0300	1.9866	0.0334	1.9532	0.0600	3.9732	0.0204	3.9528
04/08/97	7.72	ND	ND	0.0003	-----	ND	ND	0.0444	-----	0.0300	1.9315	0.0188	1.9127
04/22/97	7.72	ND	ND	0.0003	-----	ND	ND	0.0444	-----	0.0300	1.9315	0.0188	1.9127
05/06/97	7.67	ND	ND	0.0048	-----	ND	ND	0.1798	-----	0.0300	1.9190	0.1820	1.7370
05/21/97	7.67	ND	ND	0.0048	-----	ND	ND	0.1798	-----	0.0100	0.6397	0.1820	0.4577

CN BG = 0.0200 mg/L Cr BG = 0.0296 mg/L Cu BG = 0.0335 mg/L

	Qpotw (MGD)	Hex Chrome (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Mercury (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Nickel (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)
12/03/96	7.50	ND	ND	-----	-----	ND	ND	-----	-----	0.0900	5.6295	-----	5.6295
12/17/96	7.50	ND	ND	-----	-----	ND	ND	-----	-----	ND	ND	-----	-----
01/08/97	7.68	ND	ND	-----	-----	0.0004	0.0256	-----	0.0256	ND	ND	-----	-----
01/21/97	7.68	ND	ND	-----	-----	0.0004	0.0256	-----	0.0256	ND	ND	-----	-----
02/04/97	7.77	ND	ND	-----	-----	0.0006	0.0389	-----	0.0389	ND	ND	-----	-----
02/18/97	7.77	ND	ND	-----	-----	ND	ND	-----	-----	ND	ND	-----	-----
03/04/97	7.94	ND	ND	-----	-----	ND	ND	-----	-----	ND	ND	-----	-----
03/18/97	7.94	ND	ND	-----	-----	ND	ND	-----	-----	ND	ND	-----	-----
04/08/97	7.72	ND	ND	-----	-----	ND	ND	-----	-----	0.0900	5.7946	-----	5.7946
04/22/97	7.72	ND	ND	-----	-----	ND	ND	-----	-----	ND	ND	-----	-----
05/06/97	7.67	ND	ND	-----	-----	ND	ND	-----	-----	ND	ND	-----	-----
05/21/97	7.67	ND	ND	-----	-----	ND	ND	-----	-----	ND	ND	-----	-----

Hg BG = 0.0005 mg/L Ni BG = 0.0900 mg/L

Domestic Background Calculations (Cont.)

	Qpotw (MGD)	O&G (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Lead (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Antimony (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)
12/03/96	7.50	19.6000	6.4000	-----	6.4000	ND	ND	-----	-----	ND	ND	-----	-----
12/17/96	7.50	14.0000	12.4000	-----	12.4000	ND	ND	-----	-----	ND	ND	-----	-----
01/08/97	7.68	5.2000	12.8000	-----	12.8000	ND	ND	-----	-----	ND	ND	-----	-----
01/21/97	7.68	11.6000	6.8000	-----	6.8000	ND	ND	-----	-----	ND	ND	-----	-----
02/04/97	7.77	18.0000	6.8000	-----	6.8000	ND	ND	-----	-----	ND	ND	-----	-----
02/18/97	7.77	12.4000	2.0000	-----	2.0000	ND	ND	-----	-----	ND	ND	-----	-----
03/04/97	7.94	7.6000	2.4000	-----	2.4000	ND	ND	-----	-----	ND	ND	-----	-----
03/18/97	7.94	19.2000	4.8000	-----	4.8000	ND	ND	-----	-----	ND	ND	-----	-----
04/08/97	7.72	13.6000	0.0500	-----	0.0500	ND	ND	-----	-----	ND	ND	-----	-----
04/22/97	7.72	4.8000	0.8000	-----	0.8000	ND	ND	-----	-----	ND	ND	-----	-----
05/06/97	7.67	12.8000	7.6000	-----	7.6000	ND	ND	-----	-----	ND	ND	-----	-----
05/21/97	7.67	18.4000	0.8000	-----	0.8000	ND	ND	-----	-----	ND	ND	-----	-----

O&G BG = 0.0825 mg/L

	Qpotw (MGD)	Selenium (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Thallium (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Zinc (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)
12/03/96	7.50	ND	ND	-----	-----	ND	ND	-----	-----	0.0900	5.6295	0.0548	5.5747
12/17/96	7.50	ND	ND	-----	-----	ND	ND	-----	-----	0.1000	6.2550	0.0548	6.2002
01/08/97	7.68	ND	ND	-----	-----	ND	ND	-----	-----	0.1400	8.9672	0.0448	8.9224
01/21/97	7.68	ND	ND	-----	-----	ND	ND	-----	-----	0.0500	3.2026	0.0448	3.1578
02/04/97	7.77	ND	ND	-----	-----	ND	ND	-----	-----	0.1900	12.3123	0.0548	12.2575
02/18/97	7.77	ND	ND	-----	-----	ND	ND	-----	-----	0.1100	7.1282	0.0548	7.0734
03/04/97	7.94	ND	ND	-----	-----	ND	ND	-----	-----	0.0600	3.9732	0.0589	3.9143
03/18/97	7.94	ND	ND	-----	-----	ND	ND	-----	-----	0.0600	3.9732	0.0589	3.9143
04/08/97	7.72	ND	ND	-----	-----	ND	ND	-----	-----	0.0600	3.8631	0.0387	3.8244
04/22/97	7.72	ND	ND	-----	-----	ND	ND	-----	-----	0.0600	3.8631	0.0387	3.8244
05/06/97	7.67	ND	ND	-----	-----	ND	ND	-----	-----	0.0500	3.1984	0.2897	2.9087
05/21/97	7.67	ND	ND	-----	-----	ND	ND	-----	-----	0.0600	3.8381	0.2897	3.5484

Zn BG = 0.0847 mg/L

Where a POTW influent loading could be calculated and UT reported a loading for a certain parameter, the following UT flows were subtracted from the POTW flow to calculate the Background Concentration (BG):

Mth/Year	UT Flow (MGD)
12/96	0.0316
1/97	0.0226
2/97	0.0297
3/97	0.0250
4/97	0.0235
5/97	0.0322

APPENDIX B

Removal Efficiency

COLUMBUS POTW (MS0023868)

	Penta		Phenol		Silver		Arsenic		B eryllium		Cadmium	
	influent	effluent	influent	effluent	influent	effluent	influent	effluent	influent	effluent	influent	effluent
12/03/96	0.1000	0.2000	0.5000	0.3000	ND	ND	ND	ND	ND	ND	ND	ND
12/17/96	0.1000	0.1000	1.4000	0.7000	ND	ND	ND	ND	ND	ND	ND	ND
01/08/97	0.2000	0.2000	0.9000	0.6000	ND	ND	ND	ND	ND	ND	0.0100	0.0100
01/21/97	0.5000	0.4000	2.5000	0.6000	ND	ND	ND	ND	ND	ND	ND	ND
02/04/97	0.2000	0.1000	0.5000	0.9000	ND	ND	ND	ND	ND	ND	ND	ND
02/18/97	0.0400	0.0200	0.0100	0.0000	ND	ND	ND	ND	ND	ND	ND	ND
03/04/97	0.0600	0.0100	0.0700	0.0000	ND	ND	ND	ND	ND	ND	ND	ND
03/18/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/08/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/22/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/06/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0100	0.0000
05/21/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0200	0.0100
SUM	1.1000	0.8300	5.3800	2.2000								0.5000
REM EFF		0.2455		0.5911								

	Cyanide		Chromium		Copper		Hex Chrome		Mercury		Nickel	
	influent	effluent	influent	effluent	influent	effluent	influent	effluent	influent	effluent	influent	effluent
12/03/96	ND	ND	ND	ND	0.0600	0.0000	ND	ND	ND	ND	0.0900	0.0600
12/17/96	ND	ND	ND	ND	0.0400	0.0100	ND	ND	ND	ND	ND	ND
01/08/97	ND	ND	ND	ND	0.0600	0.0300	ND	ND	0.0004	0.0000	ND	ND
01/21/97	ND	ND	ND	ND	0.0200	0.0100	ND	ND	0.0004	0.0000	ND	ND
02/04/97	0.0200	0.0000	ND	ND	0.0100	0.0000	ND	ND	0.0006	0.0000	ND	ND
02/18/97	ND	ND	ND	ND	0.0500	0.0300	ND	ND	ND	ND	ND	ND
03/04/97	ND	ND	ND	ND	0.0100	0.0000	ND	ND	ND	ND	ND	ND
03/18/97	ND	ND	0.0300	0.0000	0.0600	0.0100	ND	ND	ND	ND	ND	ND
04/08/97	ND	ND	ND	ND	0.0300	0.0100	ND	ND	ND	ND	0.0900	0.0000
04/22/97	ND	ND	ND	ND	0.0300	0.0200	ND	ND	ND	ND	ND	ND
05/06/97	ND	0.0200	ND	ND	0.0300	0.0000	ND	ND	ND	ND	ND	ND
05/21/97	ND	ND	ND	ND	0.0100	0.0000	ND	ND	ND	ND	ND	ND
SUM	0.0200	0.0000	0.0300	0.0000	0.4100	0.1200			0.0014	0.0000	0.1800	0.0600
REM EFF		1.0000		1.0000		0.7073				1.0000		0.6667

	O&G		Lead		Antimony		Selenium		Thallium		Zinc	
	influent	effluent	influent	effluent	influent	effluent	influent	effluent	influent	effluent	influent	effluent
12/03/96	19.6000	6.4000	ND	ND	ND	ND	ND	ND	ND	ND	0.0900	0.0200
12/17/96	14.0000	12.4000	ND	ND	ND	ND	ND	ND	ND	ND	0.1000	0.0400
01/08/97	5.2000	12.8000	ND	ND	ND	ND	ND	ND	ND	ND	0.1400	0.0400
01/21/97	11.6000	6.8000	ND	ND	ND	ND	ND	ND	ND	ND	0.0500	0.0400
02/04/97	18.0000	6.8000	ND	ND	ND	ND	ND	ND	ND	ND	0.1900	0.0400
02/18/97	12.4000	2.0000	ND	ND	ND	ND	ND	ND	ND	ND	0.1100	0.0400
03/04/97	7.6000	2.4000	ND	ND	ND	ND	ND	ND	ND	ND	0.0600	0.0500
03/18/97	19.2000	4.8000	ND	ND	ND	ND	ND	ND	ND	ND	0.0600	0.0600
04/08/97	13.6000	0.0000	ND	ND	ND	ND	ND	ND	ND	ND	0.0600	0.0200
04/22/97	4.8000	0.8000	ND	ND	ND	ND	ND	ND	ND	ND	0.0600	0.0300
05/06/97	12.8000	7.6000	ND	ND	ND	ND	ND	ND	ND	ND	0.0500	0.0200
05/21/97	18.4000	0.8000	ND	ND	ND	ND	ND	ND	ND	ND	0.0600	0.0300
SUM	152.0000	50.8000									1.0300	0.4300
REM EFF		0.6658										0.5825

INDICATES A DATA POINT NOT CONSIDERED.

INDICATES A LESS THAN THE LIMIT OF DETECTION. FOR THIS ANALYSIS, ZERO WAS USED.

ALL VALUES ARE CONCENTRATIONS AS PARTS PER MILLION.

Rationale (Reissuance)
Kerr-McGee Chemical Corporation
Columbus, Mississippi
MSP090021
July 1, 2000

FILE COPY

I. **Industrial Information**

A. Nature of Operation: Wood Preserving and Groundwater Remediation Operations.

B. Flow for 001 is 0.041 MGD (Maximum)/Long Term Average is 0.025 MGD(Process WW and Remediated Groundwater). Requested permitted flow is 0.065 MGD for the consideration of rainfall drainage.

C. Applicable Federal Guidelines - 40 CFR Part 429.85 and 429.95

II. **Other Contributing Sources: Johnson Electric Automotive Motor MSP090048 - Formerly United Technologies Electro Systems**

A. Nature of Operation: Phosphating and Plating Lines.

B. Flow for 001 - Q_W = 0.036 MGD

C. Parameters common to permit: Copper and Chromium.

North American Precision Casting Corporation - MSP091223

A. Nature of Operation: Investment Casting and Metal Molding

B. Flow for 001 - 0.001 MGD (Q_W = 0.00145 MGD in Batch Flows)

C. Parameters common to Permit: Copper

Keystone Rustproofing, Inc.

A. Nature of Operation: Electroplating Point Source (Part 413)

B. Flow for 001 - 0.0442 MGD

C. Parameters common to Permit: Copper and Chromium

III. **POTW Information**

A. Columbus WWTF (MS0056472)

B. Effluent Flow: 7.04 MGD (Long Term Average from 12/98 to 2/00) = Q_{POTW}

C. Receiving Stream: Luxapallila Creek ($7Q_{10}$ Flow = 38.1 MGD)

IV. Pertinent Industrial Loading Calculations

A. X_{ta} - Current maximum permitted loads

Parameter	Johnson (lbs/day)	North Amer. (lbs/day)	Keystone (lbs/day)	X_{tat} (lbs/day)
Copper	5.89	0.013	1.66	7.56
Chromium	4.83	-----	2.58	7.41

B. X_t - Maximum of average discharge values from DMRs using 12 months of data.

Parameter	Johnson (lbs/day)	X_{tt} (lbs/day)
Copper	0.063	0.063
Chromium	0.033	0.033

Note: Current DMR data on North American is unavailable at this time.

V. Background/Domestic Loading Calculations

Background Loading (BG_L), lbs/day = $8.34(BG_{C(1)}, \text{mg/l})(Q_{POTW} - \text{Sum}Q_{Industrial}, \text{MGD})$

$BG_L(Cu)$ = 1.93 lbs/day

$BG_L(Cr)$ = 1.71 lbs/day

$BG_L(As)$ = 0.18 lbs/day

$BG_L(Fe)$ = [7 MGD(8.34)(UNKNOWN)] - [0.018 MGD(8.34)(15.5 mg/l)]

= UNKNOWN? Assumed Zero

$BG_L(Mn)$ = UNKNOWN? Assumed Zero

$BG_L(Mg)$ = UNKNOWN? Assumed zero

BG_L(Phenol) = 48.77 lbs/day

BG_L(Penta) = 0.0 lbs/day (Assumed from Revised Application)

(1) BG_C = Background concentration in domestic wastewater before headworks. Total Influent Lbs/day minus the Industry Lbs/day divided by the influent flow rate times 8.34. These numbers are estimated or approximated based on current DMR and application sampling data. The background levels for the parameters iron, manganese and magnesium could not be ascertained due to the unavailability of influent data. See Appendix A attached!

VI. Water Quality Analysis

A. $IWC = Q_{POTW}/(Q_{7Q10} + Q_{POTW})$

IWC = 7.04/(38.1 + 7.04) = 0.156 or 15.6% (> 1% so Acute and Chronic screening applies)

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

$AWQC = 8.34(Q_{POTW} + Q_{7Q10})(^{(2)}C_{CRIT})/(1-^{(3)}R_{POTW})$

AWQC(As) = 8.34(7.04 + 38.1)(0.36)/(1-.45) = 246 lbs/day

AWQC(Cu) = 8.34(45.14)(0.00885)/(1-.87) = 25 lbs/day

AWQC(Cr) = 8.34(45.14)(0.311)/(1-.82) = 650.45 lbs/day

$AWQC_{(Phenol)}$= 8.34(45.14)(0.3)/(1-.59) = 275 lbs/day

$AWQC_{(Penta)}$ = 8.34(45.14)(0.00332)/(1-.25) = 1.67 lbs/day

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

AWQC(As) = 8.34(45.14)(0.19)/(1-.45) = 130 lbs/day

AWQC(Cu) = 8.34(45.14)(0.00628)/(1-.87) = 18 lbs/day

AWQC(Cr) = 8.34(45.14)(0.101)/(1-.82) = 211.24 lbs/day

$AWQC_{(Phenol)}$= 8.34(45.14)(0.102)/(1-.59) = 94 lbs/day

$AWQC_{(Penta)}$= 8.34(45.14)(0.0021)/(1-.25) = 1.05 lbs/day

(2) C_{CRIT} is the acute or chronic water quality criteria value as given in the State's water Quality Criteria for State Waters.

(3) R_{POTW} is the removal efficiency that the POTW exhibits or could be expected to have given the facility's past application screening data. The EPA "Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program" Tables 3-9 and 3-10 were utilized to get expected median values for removal efficiency for the parameters: arsenic and chromium since valid screening data could not be ascertained.

VII. **POTW Inhibition Analysis**

A. Allowable Loading at POTW

$HWI_L = 8.34(Q_{POTW})(^{(4)}C_{INH})$

$HWI_L(As) = 8.34(7.04)(0.1) = 6$ lbs/day

$HWI_L(Cu) = 8.34(7.04)(1) = 59$ lbs/day

$HWI_L(Cr) = 8.34(7.04)(1) = 59$ lbs/day

$HWI_{L(Phenol)}$= 8.34 (7.04)(50) = 2936 lbs/day

$HWI_{L(Penta)}$= 8.34(7.04)(0.95) = 56 lbs/day

(4) C_{INH} is the minimum inhibition threshold level as given in Table 3-2 of the EPA "Guidance Manual on the Development and Implementation of Local discharge Limitations Under the Pretreatment Program."

VIII.

Limiting Case Summary Table

If AWQC < HWI_L
L_C = AWQC

If HWI_L < AWQC
L_C = HWI_L

Parameter	HWI_L lbs/day	Acute AWQC lbs/day	Chronic AWQC lbs/day	Acute L_C lbs/day	Chronic L_C lbs/day	BG_L lbs/day	BG_L < L_C Chronic Pass/ Fail
Arsenic	6	246	130	6	6	0.18	Pass
Copper	59	25	18	25	18	1.93	Pass
Chromium	59	650	211	59	59	1.71	Pass
Phenol	2936	275	94	275	94	48.77	Pass
Penta	56	1.67	1.05	1.67	1.05	0.0	Pass

IX. **Uniform Concentration Method Based on 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 and chronic concentrations using the Concentration Limit Method Based on Industrial Contributory Flow method as described in EPA Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program.

Equations: $P_{AI} = (L_C, \text{ lbs/day} - BG_L, \text{ lbs/day}) \frac{Q_I, \text{ MGD}}{Q_T, \text{ MGD}}$

$$C_{ALLOW}, \text{ mg/l} = \frac{P_{AI}, \text{ lbs/day}}{8.34(Q_I, \text{ MGD})}$$

where,
P_{AI} = Permit Allocation for Industry
Q_T = Total Industrial Contributory Flow for Pertinent Pollutant
Q_I = Requested Industrial Discharge by Applicant 0.05 MGD
L_C = Limiting Case Loading
BG_L = Background Loading

Acute Calculations:

Arsenic $P_{AI} = (6 - 0.18)(0.065/0.065) = 5.82$ lbs/day
$C_{ALLOW} = 5.82/(8.34 \times 0.065) = 10.74$ mg/l

Copper $P_{AI} = (25 - 1.93)(0.065/(0.065 + 0.036 + 0.00145 + 0.0442)) = 10.23$ lbs/day
$C_{ALLOW} = 10.23/(8.34 \times 0.065) = 18.87$ mg/l

Chromium $P_{AI} = (33 - 1.71)(0.065/(0.065 + 0.036 + 0.0442)) = 14.01$ lbs/day
$C_{ALLOW} = 14.01/(8.34 \times 0.065) = 25.84$ mg/l

Phenol $P_{AI} = (275 - 48.77)(0.065/0.065) = 464.23$ lbs/day
$C_{ALLOW} = 464.23/(8.34 \times 0.065) = 856.35$ mg/l

Penta $P_{AI} = (1.67 - 0.0)(0.065/0.065) = 1.67$ lbs/day
$C_{ALLOW} = 1.67/(8.34 \times 0.065) = 3.08$ mg/l

Chronic Calculations:

Arsenic P_{AI} = (6 - 0.18)(0.065/0.065) = 5.82 lbs/day
C_{ALLOW}= 5.82/(8.34 x 0.065) = 10.74 mg/l

Copper P_{AI} = (18 - 1.93)(0.065/(0.065 + 0.036 + 0.00145 + 0.0442))
= 7.12 lbs/day
C_{ALLOW}= 7.12/(8.34 x 0.065) = 13.14 mg/l

Chromium P_{AI} = (22 - 1.71)(0.065/(0.065 + 0.036 + 0.0442))
= 9.08 lbs/day
C_{ALLOW}= 9.08/(8.34 x 0.065) = 16.76 mg/l

Phenol P_{AI} = (175 - 48.77)(0.065/0.065) = 126.23 lbs/day
C_{ALLOW}= 126.23/(8.34 x 0.065) = 232.85 mg/l

Penta P_{AI} = (1.05 - 0.0)(0.065/0.065) = 1.05 lbs/day
C_{ALLOW}= 1.05/(8.34 x 0.065) = 1.94 mg/l

X. **Summary Table**

Parameter	BG_{CONC} Domestic[5] Concentration	Allowable Limiting Case Concentration Acute	Chronic	Max. Concen. Listed From Application, ppm	Part 429 Categorical Standard
Arsenic	0.0031 mg/l	10.74	10.74	0.01	4 ppm
Copper	0.0335 mg/l	18.87	13.14	0.11	5 ppm
Chromium	0.0296 mg/l	25.84	16.76	0.02	4 ppm
Phenol	0.8366 mg/l	856.35	232.85	1500	-----
Penta	0.1718 mg/l	3.08	1.94	0.0	-----

(5) See Appendix A where background data was compiled from the application screening application supplied by the POTW in 1997.

XI. **Existing Limits**

Parameter	Monthly Average Lbs/day	mg/l	Monthly Maximum Lbs/day	mg/l
Flow			0.075 MGD	
Oil & Grease		Report		59
Total Phenols	32.6	52	48.8	78

	Annual Average		Annual Maximum	
	Lbs/day	mg/l	Lbs/day	mg/l
Penta	0.744	1.19	1.12	1.79
Chromium		Report	1.48	2.36
Copper		Report	1.85	2.95
Arsenic		Report	1.48	2.36

XII. **Proposed Limits**

Except for the flow rate the existing limits will apply since the compliance history of the applicant indicates that the existing technologies used for pretreatment are adequate. The flow limit of 0.075 MGD in the existing permit will be reduced to 0.065 MGD since the application shows a maximum rate of 0.041 MGD. An additional 0.024 MGD will be added for rainfall drainage considerations. This reduction in permitted flow will also reduce the corresponding mass limits of the existing permit. These new limit values are described in the draft permit. Since this draft will be more stringent than the current permit public notice will not be required.

APPENDIX A

Domestic Background Calculations

COLUMBUS POTW (MS0023868)

	Qpotw (MGD)	Penta (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Phenol (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Silver (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)
12/03/96	7.50	0.1000	6.2550	----	6.2550	0.5000	31.2750	----	31.2750	ND	ND	----	----
12/17/96	7.50	0.1000	6.2550	----	6.2550	1.4000	87.5700	----	87.5700	ND	ND	----	----
01/08/97	7.68	0.2000	12.8102	----	12.8102	0.9000	57.6461	----	57.6461	ND	ND	----	----
01/21/97	7.68	0.5000	32.0256	----	32.0256	2.5000	160.1280	----	160.1280	ND	ND	----	----
02/04/97	7.77	0.2000	12.9604	----	12.9604	0.5000	32.4009	----	32.4009	ND	ND	----	----
02/18/97	7.77	0.0400	2.5921	----	2.5921	0.0100	0.6480	----	0.6480	ND	ND	----	----
03/04/97	7.94	0.0600	3.9732	----	3.9732	0.0700	4.6354	----	4.6354	ND	ND	----	----
03/18/97	7.94	ND	ND	----	----	ND	ND	----	----	ND	ND	----	----
04/08/97	7.72	ND	ND	----	----	ND	ND	----	----	ND	ND	----	----
04/22/97	7.72	ND	ND	----	----	ND	ND	----	----	ND	ND	----	----
05/06/97	7.67	ND	ND	----	----	ND	ND	----	----	ND	ND	----	----
05/21/97	7.67	ND	ND	----	----	ND	ND	----	----	ND	ND	----	----

Penta BG = 0.1718 mg/L

Phenol BG = 0.8366

	Qpotw (MGD)	Arsenic (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	B eryllium (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Cadmium (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)
12/03/96	7.50	ND	ND	----	----	ND	ND	----	----	ND	----	0.0085	----
12/17/96	7.50	ND	ND	----	----	ND	ND	----	----	ND	----	0.0085	----
01/08/97	7.68	ND	ND	----	----	ND	ND	----	----	0.0100	0.6405	0.0057	0.6348
01/21/97	7.68	ND	ND	----	----	ND	ND	----	----	ND	----	0.0057	----
02/04/97	7.77	ND	ND	----	----	ND	ND	----	----	ND	----	0.0067	----
02/18/97	7.77	ND	ND	----	----	ND	ND	----	----	ND	----	0.0067	----
03/04/97	7.94	ND	ND	----	----	ND	ND	----	----	ND	----	0.0064	----
03/18/97	7.94	ND	ND	----	----	ND	ND	----	----	ND	----	0.0064	----
04/08/97	7.72	ND	ND	----	----	ND	ND	----	----	ND	----	0.0048	----
04/22/97	7.72	ND	ND	----	----	ND	ND	----	----	ND	----	0.0048	----
05/06/97	7.67	ND	ND	----	----	ND	ND	----	----	ND	----	0.0097	----
05/21/97	7.67	ND	ND	----	----	ND	ND	----	----	0.0100	0.6397	0.0097	0.6300

Cd BG = 0.0099

	Qpotw (MGD)	Cyanide (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Chromium (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Copper (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)
12/03/96	7.50	ND	ND	0.0035	----	ND	ND	0.0116	----	0.0600	3.7530	0.0206	3.7324
12/17/96	7.50	ND	ND	0.0035	----	ND	ND	0.0116	----	0.0400	2.5020	0.0206	2.4814
01/08/97	7.68	ND	ND	0.0019	----	ND	ND	0.0181	----	0.0600	3.8431	0.0200	3.8231
01/21/97	7.68	ND	ND	0.0019	----	ND	ND	0.0181	----	0.0200	1.2810	0.0200	1.2610
02/04/97	7.77	0.0200	1.2960	0.0036	1.2924	ND	ND	0.0330	----	0.0100	0.6480	0.0227	0.6253
02/18/97	7.77	ND	ND	0.0036	----	ND	ND	0.0330	----	0.0500	3.2401	0.0227	3.2174
03/04/97	7.94	ND	ND	0.0018	----	ND	ND	0.0334	----	0.0100	0.6622	0.0204	0.6418
03/18/97	7.94	ND	ND	0.0018	----	0.0300	1.9866	0.0334	1.9532	0.0600	3.9732	0.0204	3.9528
04/08/97	7.72	ND	ND	0.0003	----	ND	ND	0.0444	----	0.0300	1.9315	0.0188	1.9127
04/22/97	7.72	ND	ND	0.0003	----	ND	ND	0.0444	----	0.0300	1.9315	0.0188	1.9127
05/06/97	7.67	ND	ND	0.0048	----	ND	ND	0.1798	----	0.0300	1.9190	0.1820	1.7370
05/21/97	7.67	ND	ND	0.0048	----	ND	ND	0.1798	----	0.0100	0.6397	0.1820	0.4577

CN BG = 0.0200 mg/L

Cr BG = 0.0296 mg/L

Cu BG = 0.0335 mg/L

	Qpotw (MGD)	Hex Chrome (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Mercury (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Nickel (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)
12/03/96	7.50	ND	ND	----	----	ND	ND	----	----	0.0900	5.6295	----	5.6295
12/17/96	7.50	ND	ND	----	----	ND	ND	----	----	ND	ND	----	----
01/08/97	7.68	ND	ND	----	----	0.0004	0.0256	----	0.0256	ND	ND	----	----
01/21/97	7.68	ND	ND	----	----	0.0004	0.0256	----	0.0256	ND	ND	----	----
02/04/97	7.77	ND	ND	----	----	0.0006	0.0389	----	0.0389	ND	ND	----	----
02/18/97	7.77	ND	ND	----	----	ND	ND	----	----	ND	ND	----	----
03/04/97	7.94	ND	ND	----	----	ND	ND	----	----	ND	ND	----	----
03/18/97	7.94	ND	ND	----	----	ND	ND	----	----	ND	ND	----	----
04/08/97	7.72	ND	ND	----	----	ND	ND	----	----	ND	ND	----	----
04/22/97	7.72	ND	ND	----	----	ND	ND	----	----	ND	ND	----	----
05/06/97	7.67	ND	ND	----	----	ND	ND	----	----	0.0900	5.7946	----	5.7946
05/21/97	7.67	ND	ND	----	----	ND	ND	----	----	ND	ND	----	----
										ND	ND	----	----

Hg BG = 0.0005 mg/L

Ni BG = 0.0900 mg/L

Domestic Background Calculations (Cont.)

	Qpotw (MGD)	O&G (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Lead (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Antimony (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)
12/03/96	7.50	19.6000	6.4000	——	6.4000	ND	ND	——	——	ND	ND	——	——
12/17/96	7.50	14.0000	12.4000	——	12.4000	ND	ND	——	——	ND	ND	——	——
01/08/97	7.68	5.2000	12.8000	——	12.8000	ND	ND	——	——	ND	ND	——	——
01/21/97	7.68	11.6000	6.8000	——	6.8000	ND	ND	——	——	ND	ND	——	——
02/04/97	7.77	18.0000	6.8000	——	6.8000	ND	ND	——	——	ND	ND	——	——
02/18/97	7.77	12.4000	2.0000	——	2.0000	ND	ND	——	——	ND	ND	——	——
03/04/97	7.94	7.6000	2.4000	——	2.4000	ND	ND	——	——	ND	ND	——	——
03/18/97	7.94	19.2000	4.8000	——	4.8000	ND	ND	——	——	ND	ND	——	——
04/08/97	7.72	13.6000	0.0500	——	0.0500	ND	ND	——	——	ND	ND	——	——
04/22/97	7.72	4.8000	0.8000	——	0.8000	ND	ND	——	——	ND	ND	——	——
05/06/97	7.67	12.8000	7.6000	——	7.6000	ND	ND	——	——	ND	ND	——	——
05/21/97	7.67	18.4000	0.8000	——	0.8000	ND	ND	——	——	ND	ND	——	——

O&G BG = 0.0825 mg/L

	Qpotw (MGD)	Selenium (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Thallium (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)	Zinc (mg/L)	(lb/d)	UT (lb/d)	BG (lb/d)
12/03/96	7.50	ND	ND	——	——	ND	ND	——	——	0.0900	5.6295	0.0548	5.5747
12/17/96	7.50	ND	ND	——	——	ND	ND	——	——	0.1000	6.2550	0.0548	6.2002
01/08/97	7.68	ND	ND	——	——	ND	ND	——	——	0.1400	8.9672	0.0448	8.9224
01/21/97	7.68	ND	ND	——	——	ND	ND	——	——	0.0500	3.2026	0.0448	3.1578
02/04/97	7.77	ND	ND	——	——	ND	ND	——	——	0.1900	12.3123	0.0548	12.2575
02/18/97	7.77	ND	ND	——	——	ND	ND	——	——	0.1100	7.1282	0.0548	7.0734
03/04/97	7.94	ND	ND	——	——	ND	ND	——	——	0.0600	3.9732	0.0589	3.9143
03/18/97	7.94	ND	ND	——	——	ND	ND	——	——	0.0600	3.9732	0.0589	3.9143
04/08/97	7.72	ND	ND	——	——	ND	ND	——	——	0.0600	3.8631	0.0387	3.8244
04/22/97	7.72	ND	ND	——	——	ND	ND	——	——	0.0600	3.8631	0.0387	3.8244
05/06/97	7.67	ND	ND	——	——	ND	ND	——	——	0.0500	3.1984	0.2897	2.9087
05/21/97	7.67	ND	ND	——	——	ND	ND	——	——	0.0600	3.8381	0.2897	3.5484

Zn BG = 0.0847 mg/L

Where a POTW influent loading could be calculated and UT reported a loading for a certain parameter, the following UT flows were subtracted from the POTW flow to calculate the Background Concentration (BG):

Mth/Year	UT Flow (MGD)
12/96	0.0316
1/97	0.0226
2/97	0.0297
3/97	0.0250
4/97	0.0235
5/97	0.0322

APPENDIX B

Removal Efficiency

COLUMBUS POTW (MS0023868)

	Penta		Phenol		Silver		Arsenic		Beryllium		Cadmium	
	influent	effluent	influent	effluent	influent	effluent	influent	effluent	influent	effluent	influent	effluent
12/03/96	0.1000	0.2000	0.5000	0.3000	ND	ND	ND	ND	ND	ND	ND	ND
12/17/96	0.1000	0.1000	1.4000	0.7000	ND	ND	ND	ND	ND	ND	ND	ND
01/08/97	0.2000	0.2000	0.9000	0.6000	ND	ND	ND	ND	ND	ND	0.0100	0.0100
01/21/97	0.5000	0.4000	2.5000	0.6000	ND	ND	ND	ND	ND	ND	ND	ND
02/04/97	0.2000	0.1000	0.5000	0.9000	ND	ND	ND	ND	ND	ND	ND	ND
02/18/97	0.0400	0.0200	0.0100	0.0000	ND	ND	ND	ND	ND	ND	ND	ND
03/04/97	0.0600	0.0100	0.0700	0.0000	ND	ND	ND	ND	ND	ND	ND	ND
03/18/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/08/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/22/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/06/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/21/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SUM	1.1000	0.8300	5.3800	2.2000							0.0100	0.0000
REM EFF		0.2455		0.5911							0.0200	0.0100
												0.5000

	Cyanide		Chromium		Copper		Hex Chrome		Mercury		Nickel	
	influent	effluent	influent	effluent	influent	effluent	influent	effluent	influent	effluent	influent	effluent
12/03/96	ND	ND	ND	ND	0.0600	0.0000	ND	ND	ND	ND	0.0900	0.0600
12/17/96	ND	ND	ND	ND	0.0400	0.0100	ND	ND	ND	ND	ND	ND
01/08/97	ND	ND	ND	ND	0.0600	0.0300	ND	ND	0.0004	0.0000	ND	ND
01/21/97	ND	ND	ND	ND	0.0200	0.0100	ND	ND	0.0004	0.0000	ND	ND
02/04/97	0.0200	0.0000	ND	ND	0.0100	0.0000	ND	ND	0.0006	0.0000	ND	ND
02/18/97	ND	ND	ND	ND	0.0500	0.0300	ND	ND	ND	ND	ND	ND
03/04/97	ND	ND	ND	ND	0.0100	0.0000	ND	ND	ND	ND	ND	ND
03/18/97	ND	ND	0.0300	0.0000	0.0600	0.0100	ND	ND	ND	ND	ND	ND
04/08/97	ND	ND	ND	ND	0.0300	0.0100	ND	ND	ND	ND	ND	ND
04/22/97	ND	ND	ND	ND	0.0300	0.0200	ND	ND	ND	ND	0.0900	0.0000
05/06/97	ND	0.0200	ND	ND	0.0300	0.0000	ND	ND	ND	ND	ND	ND
05/21/97	ND	ND	ND	ND	0.0100	0.0000	ND	ND	ND	ND	ND	ND
SUM	0.0200	0.0000	0.0300	0.0000	0.4100	0.1200			0.0014	0.0000	0.1800	0.0600
REM EFF		1.0000		1.0000		0.7073				1.0000		0.6667

	O&G		Lead		Antimony		Selenium		Thallium		Zinc	
	influent	effluent	influent	effluent	influent	effluent	influent	effluent	influent	effluent	influent	effluent
12/03/96	19.6000	6.4000	ND	ND	ND	ND	ND	ND	ND	ND	0.0900	0.0200
12/17/96	14.0000	12.4000	ND	ND	ND	ND	ND	ND	ND	ND	0.1000	0.0400
01/08/97	5.2000	12.8000	ND	ND	ND	ND	ND	ND	ND	ND	0.1400	0.0400
01/21/97	11.6000	6.8000	ND	ND	ND	ND	ND	ND	ND	ND	0.0500	0.0400
02/04/97	18.0000	6.8000	ND	ND	ND	ND	ND	ND	ND	ND	0.1900	0.0400
02/18/97	12.4000	2.0000	ND	ND	ND	ND	ND	ND	ND	ND	0.1100	0.0400
03/04/97	7.6000	2.4000	ND	ND	ND	ND	ND	ND	ND	ND	0.0600	0.0500
03/18/97	19.2000	4.8000	ND	ND	ND	ND	ND	ND	ND	ND	0.0600	0.0600
04/08/97	13.6000	0.0000	ND	ND	ND	ND	ND	ND	ND	ND	0.0600	0.0200
04/22/97	4.8000	0.8000	ND	ND	ND	ND	ND	ND	ND	ND	0.0600	0.0300
05/06/97	12.8000	7.6000	ND	ND	ND	ND	ND	ND	ND	ND	0.0500	0.0200
05/21/97	18.4000	0.8000	ND	ND	ND	ND	ND	ND	ND	ND	0.0600	0.0300
SUM	152.0000	50.8000									1.0300	0.4300
REM EFF		0.6658										0.5825

[ ] INDICATES A DATA POINT NOT CONSIDERED.

[ ] INDICATES A LESS THAN THE LIMIT OF DETECTION. FOR THIS ANALYSIS, ZERO WAS USED.

ALL VALUES ARE CONCENTRATIONS AS PARTS PER MILLION.

Facility Data Screen #1 (FAC)

PERMIT #: MSP0900021

TRANSACTION CODE: (N=NEW C=CHANGE) N

IF THIS IS A REISSUANCE, DID PERMIT LIMITS CHANGE (Y/N) ? N

FACILITY NAME: Kerr-McGee Chemicals LLC

COGNIZANT OFFICIAL: mr. Ronald P. murphey, plant manager

PHONE: 662-328-7551

CITY: columbus

COUNTY CODE: 087

SIC CODE: 2491

TYPE OF APPLICATION: 2P

FACILITY OWNERSHIP: PRI

TYPE OF PERMIT: S

FEDERAL GRANT : 92-500 ONLY "$"

WATER QUALITY LIMITS (Y/N)

FACILITY INACTIVE CODE

FACILITY INACTIVE DATE - -

(Use **ONLY** if you are inactivating an entire facility. Otherwise use OFLG)

SUB-REGION: NO

ENGINEER: (initials) JCT

AVERAGE DESIGN FLOW : 0.065 MGD

Facility Data Screen #2 (FAC2)

PERMIT #: MS P0900021

TRANSACTION CODE: (N=NEW C=CHANGE)

RIVER BASIN #

0338 - Upper Tombigbee River
0340 - Lower Tombigbee River
0342 - Pascagoula River
0343 - Pearl River
0408 - Tennesse River
1006 - Mississippi River
1011 - Yazoo River
1018 - Big Black
1021 - South Independent
1099 - Coastal Streams

RECEIVING WATERS Columbus POTW (MS0056472)

Facility Type:

RDF1 P

I = Industrial
X = Ind Non Report
P = Pretreatment
M = Municipal
D = Domestic
N = Dom Non Report
F = Federal

Toxic and Bio-Assay Code:

RDF2

T = Toxic
A = Acute
C = Chronic

Treatment Type:

RDF4 API

AC = Activated Carbon
AS = Activated Sludge
AL = Aerated Lagoon
AN = Anaerobic Lagoon
API = API Separator
AW = Artificial Wetlands
CC = Contact Cooling
CL = Conventional Lagoon
CT = Cooling Tower
DW = Deepwell
DF = Diffuser
EOP = End of Pipe
EV = Evaporation
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

Facility Address Screen (FACA)

** Permit # msp0900021

- - - - * Primary DMR Mailing Address - - - -

Facility Name: Kerr-McGee Chemical LLC

Address Line1: 2300 14th Avenue North

Address Line2:

CITY: Columbus ST: MS ZIP: 39701

- - - - Alternate DMR Mailing Address - - - -

Facility Name:

Address Line1:

Address Line2:

CITY: ST: ZIP:

- - - - Facility Location Address - - - -

Facility Name:

Address Line1:

Address Line2:

CITY: ST: ZIP:

Telephone: 662-328-7551

Permit Tracking Screen (PTR

PERMIT # : MSP0900021

Permit Issuance: TRANSACTION CODE : (N=NEW C=CHANGE) N

PERMIT TRACKING EVENT CODE : P4099

SCHEDULED DATE : __-__-__

ACTUAL DATE : __-__-__

Permit Expiration: TRANSACTION CODE : (N=NEW C=CHANGE) N

PERMIT TRACKING EVENT CODE : P5099

SCHEDULED DATE : 07-31-05

ACTUAL DATE : 07-31-05

Permit Facility Geographic Data Screen (FAGD)

PERMIT # : MSP0900021

TRANSACTION CODE : C

LATITUDE (FLAT) : +33323000

LONGITUDE (FLON) : -088243200

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
4 = State Plan Coord System Conv
5 = Township-Section-Range sys Conv
6 = UTM Coordinates Conversion
7 = Raw Photo Extration
8 = GPS Survey
9 = Loran-C Navigational Device

LAT/LONG DATUM (FLLT) : 1

U = Unknown 1 = NAD27 2 = NAD83

LAT/LONG SCALE (FLLS) : 3

N = Not Applicable
U = Unknown
1 = 15,840
2 = 20,000
3 = 24,000
4 = 25,000
5 = 62,500
6 = 63,000
7 = 63,350
8 = 63,360
9 = 250,000

LAT/LONG DESCRIPTION (FLLD) : 01099

01099 = Centroid of Processing Area
02099 = Front Door of Facility

USGS HYDROLOGIC BASIN CODE (FHBC) : 03160105

Outfall General Data Screen #1 (OFLG)

PERMIT # : MSP0900021

TRANSACTION CODE : N
(N=New C=Change)

DISCHARGE NUMBER : 001

REPORT DESIGNATOR : A

INITIAL REPORT DATE : 09-01-00

REPORT UNITS : M

NUMBER OF UNITS IN REPORT PERIOD : 001

TOTAL NUMBER OF UNITS DUE : 060

INITIAL STATE SUBMISSION DATE : 09-28-00

STATE SUBMISSION UNIT : M

PIPE DESCRIPTION : Process and Treated Groundwater

SEASONAL DMR PRINTING INDICATORS : Y Y Y Y Y Y Y Y Y Y Y Y

INITIAL LIMIT DATES : START -- - -- END -- - -- - --

INTERIM LIMIT DATES : START -- - -- - -- END -- - -- - --

FINAL LIMIT DATES : START -- - -- - -- END -- - -- - --

PIPE INACTIVE CODE : [ ]

PIPE INACTIVE DATE : -- - -- - --

AGENCY REVIEWER (ENGINEER) : JCJ

(Use if only the pipe itself is not active.
To inactivate an entire facility, use FAC1.)

Outfall General Data Screen #2 (OFLT)

Use these nine lines if you want comments or instructions to appear on the bottom of the DMR when it is preprinted for the facility.

(Three lines are equal to one line on the DMR)

FORM 2-P

For Agency Use
Application Number

Date Received

STATE OF MISSISSIPPI
OFFICE OF POLLUTION CONTROL
P. O. BOX 10385
JACKSON, MISSISSIPPI 39289-0385

APPLICATION FOR A STATE OPERATING PRETREATMENT PERMIT

(Please print or type)

1. Name of Applicant:	Kerr-McGee Chemical LLC				
	Forest Products Division				
2. Mailing Address of Applicant:					
Number & Street (P. O. Box):	2300 14th Avenue North				
City:	Columbus	State:	MS	Zip:	39701
Telephone Number:	(601) 328-7551				
3. Applicant's Authorized Agent:					
Name and Title:	Nick Bock, Environmental Manager				
Number & Street (P. O. Box):	Kerr-McGee Chemical LLC, P.O.Box 25861				
City:	Oklahoma City	State:	OK	Zip:	73125
Telephone Number:	(405) 270-2394 email nbock@kmg.com				
4. Facilities Location:					
Number & Street (P. O. Box):	2300 14th Avenue North				
City:	Columbus, MS	County:	Lowndes		
Latitude (Deg., Min., Sec.):	33° 32' 30"				
Longitude (Deg., Min., Sec.):	88° 24' 32"				

5. Nature of Business:	Wood Preserving						
6. Location Map: (Provide as an attachment to this application) Location Map Attached							
7. SIC CODES (*4-digit, in order of priority*)							
A. FIRST		B. SECOND					
2491	Wood Preserving	NA	NA				
C. THIRD		D. FOURTH					
NA	NA	NA	NA				
8. Name of POTW Receiving Wastewater:	City of Columbus, POTW						
Number & Street (P. O. Box):	168 Yorkville Road West						
City:	Columbus, MS	County:	Lowndes				
9. Discharge Type and Occurrence:							
A. Type of Discharge:	Cont.	Continuous; If Continuous					
NA	Gallons Per Day,	NA	Batch				
B. Discharge Occurrence:	7	Days per Week					
C. Discharge Occurrence:							
x	January	x	February	x	March	x	April
x	May	x	June	x	July	x	August
x	September	x	October	x	November	x	December
10. If Batch: A.	NA	Thousand Gallons per Discharge					
B.	NA	Hours per Day					
C.	NA	Discharge Occurrence per Day					
11. Maximum Period of Flow: From	1/1/97	to	1/31/97				
	Month		Month				

12. Facility Water Use:	
Estimate average volume in thousand gallons per day for the following types of water usage at this facility.	
Noncontact Cooling:	None
Boiler Feed:	0.5 GPD
Process (Including Contact Cooling):	10.78 GPD
Sanitary:	None
Other:	Unregulatd Creosote Contaminated Stormwater and Groundwater: 11.88 GPD (**See Combined Waste Stream Formula Spreadsheet, Table 1 and Water Balance, Figure 1)**
Total:	23.16 GPD. See Water Balance Schematic and Combined Waste Stream Formula.
13. List all Facility Discharges:	City of Columbus POTW
Other water losses (surface water, product consumption, evaporation). Indicate volume in thousand gallons.	
None	
(**See Combined Waste Stream Formula Spreadsheet, Table 1 and Water Balance, Figure 1.**	
14. Give narrative description of process(es) producing discharge, or in case of no discharge, that generates wastewater.	
Wood treatment green and dry in retorts. Wood from production	
process generates water, the plant recirculates wastewater to	
the Vacuum pumps and an air scubber. Creosote contaminated	
groundwater is recovered and the creosote is recycled to the process.	
Production oil water separators and a biological unit are used	
for wastewater treatment.	

15. List raw materials used:	Wood and Creosote

16. PRODUCTION	

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your Facility?

X~ Yes (complete Item 16-B) ~ No (Go to 17)

B. Are the limitations in the applicable effluent guidelines expressed in terms of production (or other measure of operation)?

~ Yes (complete Item 16-C) X~ No (Go to 17)

C. If you answered "yes" to Item 16-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (*list outfall numbers*)
a. QUANTITY PER DAY	B. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (*specify*)	
NA			

17. Effluent Characteristics:

A. You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall to the city sewer. If your facility does not have a discharge indicate so and disregard.

1. POLLUTANT	2. EFFLUENT							3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANAL-YSES			a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
	(1) CONCENT-RATION	(2) MASS	(1) CONCENT-RATION	(2) MASS	(1) CONCENT-RATION	(2) MASS		a. CONCENT-RATION	b. MASS	(1) CONCENT-RATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	51							Mg/l				
b. Chemical Oxygen Demand (COD)	530							Mg/l				
c. Total Suspended Solids (TSS)	57							Mg/l				
d. Ammonia (as N)	20							Mg/l				
e. Flow	VALUE 41,000 GPD		VALUE 977,000 Gal/Mon.		VALUE 25149 GPD		36	GPD		VALUE 25149 GPD		36
f. Temperature (winter)	VALUE 60°F (estimate)		VALUE 60°F (estimate)		VALUE 60°F (estimate)		1	°C		VALUE 60°F (estimate)		°F
g. Temperature (summer)	VALUE 90°F (estimate)		VALUE 90°F (estimate)		VALUE 90°F (estimate)		1	°C		VALUE 90°F (estimate)		°F
h. pH	MIN 5.9	MAX 7.9	MIN 5.9	MAX 7.9			36	STANDARD UNITS				

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*Use the same format*) instead of completing these pages.

B. INTAKE AND EFFLUENT CHARACTERISTICS

OUTFALL NO. 001

Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitive data or an explanation of their presence in your discharge. Complete one table for each outfall.

1. POLLUTANT AND CAS NO. (*if avail-able*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	A. BE-LIEVED PRE-SENT	B. BE-LIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVERAGE VALUE (*if available*)		d. NO. OF ANAL-YSIS	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
			(1) CONC	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual		X												
c. Fluoride (16984-48-8)		X												
d. Nitrate-Nitrite (as N)	X		0.9	NA	NA	NA	NA	NA	1	Mg/l	NA	NA	NA	NA

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVERAGE VALUE (*if available*)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
e. Nitrogen, Total Organic (*as N*)	X		18.0	NA	NA	NA	NA	NA	1	Mg/l	NA	NA	NA	NA
f. Oil and Grease	X		20	NA	20	NA	9.2	NA	36	Mg/l	NA	9.2	NA	48
g. Phosphorus (*as P*), Total (7723-14-0)	X		.41	NA	NA	NA	NA	NA	1	Mg/l	NA	NA	NA	NA
h. Radioactivity														
1. Alpha, Total		X												
2. Beta, Total		X												
3. Radium Total		X												
4. Radium 226, Total		X												
i. Sulfate (*as SO_4*) 14808-79-8)		X												

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVERAGE VALUE (*if available*)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
j. Sulfide (*as S*)	X		.25	NA	NA	NA	NA	NA	1	Mg/l	NA	NA	NA	NA
k. Sulfite (*as SO_3*) (14265-45-3)	X		3.5	NA	NA	NA	NA	NA	1	Mg/l	NA	NA	NA	NA
l. Surfactants		X		NA	NA	NA	NA	NA	1	Mg/l	NA	NA	NA	NA
m. Aluminum Total (7429-90-5)		X		NA	NA	NA	NA	NA	1	Mg/l	NA	NA	NA	NA
n. Barlum Total (7440-39-3)		X												
o. Boron, Total (7440-42-8)		X												
p. Cobalt Total (7440-48-4)		X												
q. Iron Total (7439-89-6)	X		15.5	NA	NA	NA	NA	NA	1	Mg/l	NA	NA	NA	NA

1. POLLUTANT AND CAS NO. (*if avail-able*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	A. BE-LIEVED PRE-SENT	B. BE-LIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVERAGE VALUE (*if available*)		d. NO. OF ANAL-YSIS	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
			(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
r. Magnesium Total (7439-95-4)	X		8.61	NA	NA	NA	NA	NA	1	Mg/l	NA	NA	NA	NA
s. Moly-bdenum Total (7439-98-7)		X												
t. Manganese Total (7439-96-5)	X		3.36	NA	NA	NA	NA	NA	1	Mg/l	NA	NA	NA	NA
u. Tin, Total (4770-31-5)		X												
v. Titanium Total (7440-32-6)		X												

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table I (see attachment) to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, process wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2, 4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you will discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 20 pages to this application. Please review each carefully. Complete one table (*all 20 pages*) for each outfall.

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)	
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVERAGE VALUE (*if available*)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	b. NO. OF ANALYSES
				(1) CONC	(2) MASS	(1) CONC	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-0)			X											
2M. Arsenic, Total (7440-38-2)	X	X		0.01	NA	0.01	NA	0.002	NA	6	Mg/l	NA	NA	NA	NA
3M. Beryllium Total 7440-41-7			X											

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVERAGE VALUE (*if available*)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
4M. Cadmium, Total (7440-43-9)			X												
5M. Chromium, Total (7440-47-3)	X	X		0.02	NA	0.02	NA	0.003	NA	6	Mg/l	NA	0.003	NA	6
6M. Copper, Total (7440-50-8)	X	X		0.11	NA	0.11	NA	0.02	NA	6	Mg/l	NA	0.02	NA	6
7M. Lead, Total (7439-92-1)			X												
8M. Mercury, Total (7439-97-6)			X												
9M. Nickel, Total (7440-02-0)			X												
10M. Selenium, Total (7782-49-2)			X												

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVERAGE VALUE (*if available*)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
11M. Silver, Total (7440-22-4)			X												
12M. Thallium, Total (7440-28-0)			X												
13M. Zinc Total (7440-66-6)			X												
14M. Cyanide, Total (57-12-5)			X												
15M. Phenols, Total	X	X		52.9	10.8	52.9	10.8	52.9	10.8	36	Mg/l	Pounds	15	3.1	36
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVERAGE VALUE (*if available*)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (*Chloromethyl*) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon Tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												

3. EFFLUENT					4. UNITS		5. INTAKE (optional)		
a. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	

3. EFFLUENT					4. UNITS		5. INTAKE (*optional*)		
. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVERAGE VALUE (*if available*)		d. NO. OF ANAL-YSIS	a. CON-CEN-TRA-TION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
1) ONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	

TABLE 1

TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS INDUSTRY CATEGORY

INDUSTRY CATEGORY	GC/MS FRACTION Volatile	Base/Neutral	Acid	Pesticide
Adhesives and sealants	X	X	X	-
Aluminum forming	X	X	X	-
Auto and other laundries	X	X	X	X
Battery manufacturing	X	-	X	-
Coal mining	-	-	-	-
Coil coating	X	X	X	-
Copper forming	X	X	X	-
Electric and electronic compounds	X	X	X	X
Electroplating	X	X	X	-
Explosives manufacturing	-	X	X	-
Foundries	X	X	X	-
Gum and wood chemicals				
Tall oil rosin (subpart D)	X	X	X	-
Rosin based derivatives subpart F)	X	X	X	-
All other subparts	X	X	-	-
Inorganic chemicals manufacturing	X	X	X	-
Iron and steel manufacturing	X	X	X	-
Leather tanning and finishing	X	X	X	-
Mechanical products manufacturing	X	X	X	-
Nonferrous metals manufacturing	X	X	X	X
Ore mining (applies to the base and precious metals/subpart B)	-	X	-	-
Organic chemicals manufacturing	X	X	X	X
Paint and ink formulation	X	X	X	-
Pesticides	X	X	X	X
Petroleum refining	X	-	-	-
Pharmaceutical preparations	X	X	X	-
Photographic equipment and supplies	X	X	X	-
Plastic and synthetic materials mfg.	X	X	X	X
Plastic processing	X	-	-	-
Porcelain enameling	-	-	-	-
Printing and publishing	X	X	X	X
Pulp and paperboard mills				
Unbleached Kraft (subpart A)	2	X	2	X
Semi-chemical (subpart B)	2	X	2	2
(subpart C)	2	X	2	2
Unbleached Kraft-neutral sulfite semi-chemical (cross recovery) (subpart D)	2	X	2	2
Paperboard from wastepaper (subpart E)	X	X	2	X
Dissolving Kraft (subpart F)	X	X	2	2
Market bleached Kraft (subpart G)	X	X	2	2
BCT bleached Kraft (subpart H)	X	X	2	2
Fine bleached Kraft (subpart I)	X	X	2	2
Papergrade sulfite (subpart J)	X	X	X	2
Dissolving sulfite pulp (subpart K)	X	X	2	2
Groundwood-chemical-mechanical (subpart L)	X	X	2	2
Groundwood-termo-mechnical (subpart M)	X	X	2	2
Groundwood-CMN papers (subpart N)	X	X	2	2
Groundwood-fine papers (subpart O)	X	X	2	2
Soda (subpart P)	X	X	2	2
Deink (subpart Q)	X	X	2	X

Nonintegrated-fine papers (subpart R)	2	X	2	2
Nonintegrated-tissue papers (subpart S)	X	X	2	X
Tissue from wastepaper (subpart T)	X	X	2	X
Papergrade sulfite (subpart U)	X	X	X	2
All other subparts (V through Z)	Determined case by case, unless superseded by regulation.			
Rubber processing	X	X	X	-
Soap and detergent manufacturing	X	X	X	-
Steam electric power plants	X	X	-	-
Textile mills	X	X	X	-
Timber products processing	X	X	X	X

2 - Do not test unless "reason to believe" it is discharged.

18. Treatment Units:				
A. Do you provide treatment for your wastewater?	X	Yes		No

B. If yes, list and describe each treatment unit and attach a line schematic of the treatment system indicating each treatment unit and a water balance.

See Figure 1, Gravity separation, polymer addition, gravity separation, Aeration and nutrients. Extensive water recycle.

19. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item 17 performed by a contract laboratory or consulting firm?

~X YES (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*)

~ NO (*go to Item 20*)

A. NAME	B. ADDRESS	C. TELEPHONE (*area code & no.*)	D. POLLUTANTS ANALYZED (*list*)
Enviro-labs	P.O. Box 1096 Starkville, MS 39760-1096	(601) 323-7744	Oil and grease Metals Total Phenol
Southwest Lab Of Oklahoma	1700 W. Albany Broken Arrow, OK 74012	(918) 251-2858 Randy Staggs	Constituents Listed in Section 17, Part C

20. I certify that I am familiar with the information contained in this ation and that to the best of my knowledge and belief such information is nd correct.

Nick Bock	Manager, Regulatory Compliance
Printed Name of Applicant's Authorized Agent Title and/or Individual Meeting Signatory Requirements of 40 CFR 403.12(1)	Title
3/15/00 Nick Bock	Nick Bock
Date Application Signed	Signature of Authorized Agent and/or Individual Meeting Signatory Requirements of 40 CFR 403.12(1)

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"			3. EFFLUENT						d. NO. OF ANALYSIS	4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONC.	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONC.	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVERAGE VALUE (if available) (1) CONC.	c. LONG TERM AVERAGE VALUE (if available) (2) MASS		a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONC.	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)			X												
23V. 1,1,2,2-Tetrachloro-ethane (79-34-5)			X												
24V. Tetra-chloro-ethylene (127-18-4)			X												
25V. Toluene (108-88-3)			X												
26V. 1,2-Trans-Dichloro-ethylene (156-60-5)			X												

1. POLLUTANT AND CAS NO. (if avail-able)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TEST-ING RE-QUIR-ED	B. BE-LIEVED PRE-SENT	C. BE-LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANAL-YSIS	a. CON-CEN-TRA-TION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
27V. 1,1,1-Trichloroethane (71-55-6)			X												
28V. 1,1,2-Trichloroethane (79-00-5)			X												
29V. Trichloroethylene (79-01-6)			X												
30V. Trichlorofluoro-methane (75-69-4)			X												
31V. Vinyl Chloride (75-01-4)			X												
GC/MS FRACTION - ACID COMPOUNDS															
1A. 2-Chloro-phenol (95-57-8)	X	X		ND	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA
2A. 2,4-Dichloro-phenol (120-83-2)	X	X		ND	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA

1. POLLUTANT AND CAS NO. (if avail-able)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TEST-ING RE-QUIR-ED	B. BE-LIEVED PRE-SENT	C. BE-LIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANAL-YSIS	a. CON-CEN-TRA-TION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
3A. 2,4-Dimethyl-phenol (105-67-9)	X	X		180	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X												
5A. 2,4-Dinitro-phenol (51-28-5)	X	X		ND	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA
6A. 2-Nitro-phenol (88-75-5)	X	X		ND	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA
7A. 4-Nitro-phenol (100-02-7)	X	X		ND	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA
8A. P-Chloro-M-Cresol (59-50-7)			X												
9A. Penta-chloro-phenol (87-86-5)	X	X		.374	NA	.374	NA	NA	NA	6	Mg/l	NA	0.06	NA	6

1. POLLUTANT AND CAS NO. (if avail-able)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TEST-ING RE-QUIR-ED	B. BE-LIEVED PRE-SENT	C. BE-LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANAL-YSIS	a. CON-CEN-TRA-TION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
10A. Phenol (108-95-2)	X	X		1500	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA
11A. 2,4,6-Trichlorophenol (88-06-2)	X	X		ND	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaph-thene (83-32-9)	X	X		600	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA
2B. Acenaph-tylene (208-96-8)	X	X		35	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA
3B. Anthra-cene (120-12-7)	X	X		240	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA
4B. Benzidine (92-87-5)			X												
5B. Benzo (a) Anthra-cene (56-55-3)	X	X		240	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA

1. POLLUTANT AND CAS NO. (if avail-able)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TEST-ING RE-QUIR-ED	B. BE-LIEVED PRE-SENT	C. BE-LIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANAL-YSIS	a. CON-CEN-TRA-TION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
24B. Diethyl Phthalate (84-66-2)			X												
25B. Dimethyl Phthalate (131-11-3)			X												
26B. Di-N-Butyl Phthalate (84-74-2)			X												
27B. 2,4-Dinitro-toluene (121-14-2)			X												
28B. 2,6-Dinitro-toluene (606-20-2)			X												
29B. Di-N-Octyl Phthalate (117-84-0)			X												
30B. 1,2-Diphenyl-hydrazine (as Azo-benzene) (122-66-7)			X												

1. POLLUTANT AND CAS NO. (if avail-able)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TEST-ING RE-QUIR-ED	B. BE-LIEVED PRE-SENT	C. BE-LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANAL-YSIS	a. CON-CEN-TRA-TION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
31B. Fluoranthene (206-44-0)	X	X		480	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA
32B. Fluorene (86-73-7)	X	X		490	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA
33B. Hexachlorobenzene (118-74-1)			X												
34B. Hexa-chloro-butadiene (87-68-3)			X												
35B. Hexa-chlorocyclopentadiene (77-47-4)			X												
36B. Hexa-chloro-ethane (67-72-1)			X												
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X	X		28	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA

1. POLLUTANT AND CAS NO. (if avail-able)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TEST-ING RE-QUIR-ED	B. BE-LIEVED PRE-SENT	C. BE-LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANAL-YSIS	a. CON-CEN-TRA-TION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
38B. Iso-phorone (78-59-1)			X												
39B. Naph-thalene (91-20-3)	X	X		1200	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA
40B. Nitro-benzene (98-95-3)			X												
41B. N-Nitro-Sodimethylamine (62-75-9)			X												
42B. N-NitrosodiN-Propy-lamine (621-64-7)			X												
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitro-sodiphenylamine (86-30-6)			X												
44B. Phenan-threne (85-01-8)			X	610											

1. POLLUTANT AND CAS NO. (if avail-able)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TEST-ING RE-QUIR-ED	B. BE-LIEVED PRE-SENT	C. BE-LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANAL-YSIS	a. CON-CEN-TRA-TION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
45B. Pyrene (129-00-0)	X	X		390	NA	NA	NA	NA	NA	1	PPB	NA	NA	NA	NA
46B. 1,2,4-Trichlorobenzene (120-82-1)			X												
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. m-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												

1. POLLUTANT AND CAS NO. (*if avail-able*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	A. TEST-ING RE-QUIR-ED	B. BE-LIEVED PRE-SENT	C. BE-LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVERAGE VALUE (*if available*)		d. NO. OF ANAL-YSIS	a. CON-CEN-TRA-TION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endo-sulfan (115-29-7)			X												
12P. β-Endo-sulfan (115-29-7)			X												
13P.Endo-sulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												

1. POLLUTANT AND CAS NO. (if avail-able)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TEST-ING RE-QUIR-ED	B. BE-LIEVED PRE-SENT	C. BE-LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANAL-YSIS	a. CON-CEN-TRA-TION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONG.	(2) MASS				(1) CONC.	(2) MASS	
GC/MS FRACTION - PESTICIDES (continued)															
16P. Hepta-chlor (76-44-8)			X												
17P. Hepta-chlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												

1. POLLUTANT AND CAS NO. (if avail-able)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TEST-ING RE-QUIR-ED	B. BE-LIEVED PRE-SENT	C. BE-LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANAL-YSIS	a. CON-CEN-TRA-TION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
GC/MS FRACTION PESTICIDES (continued)															
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

KERR-McGEE CHEMICAL LLC
KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

CERTIFIED MAIL
Return Receipt Requested.

March 17, 2000

Brad Shanks
Office of Pollution Control
P.O. Box 10385
Jackson, MS 39289-0358

Re: Kerr-McGee Chemical LLC, Columbus, MS Wood Preserving Facility, Pretreatment Permit Application No. MSP090021

Dear Mr. Shanks:

Please find enclosed a completed permit application for our Columbus, MS wood preserving facility. We have completed Section 17 constituent analysis to supplement our April 13, 1999 permit application.

We have provided as attachments to this application the following documents:

1. Pretreatment Permit Application Form 2-P
2. A location map of the facility.
3. Figure 1, Water Balance, depicting flow direction, average daily flows, process equipment and wastestream classifications.
4. Table 1, Wastewater Classification, uses the information provided in Table 1 and calculates the probable quantity of discharge of the various wastewater sources. Table 1 is used to verify that values used in Figure 1 are in equilibrium.
5. Table 2, Combined Wastestream Formula, applies 40 CFR 403.6(e) criteria to the various wastestreams in Figure 1 to calculate the alternate concentration limit. Our basis of wastestream classification is the footnotes associated with 40 CFR 403.6(e) and Appendix D/E of Part 403.
6. Table 3, Wastewater Classification, discusses our views of the application of the four tests required by the NRDC v. Costle Consent Decree.

We believe this approach is consistent with the requirements of the Clean Water Act. We are prepared, at your convenience, to meet and discuss the application of the combined wastestream formula to the Columbus facility should you desire. We would be willing to meet with you either in Jackson or at the facility.

In the interim, should you have questions please contact me at (405) 270-2394 or email at nbock@kmg.com.

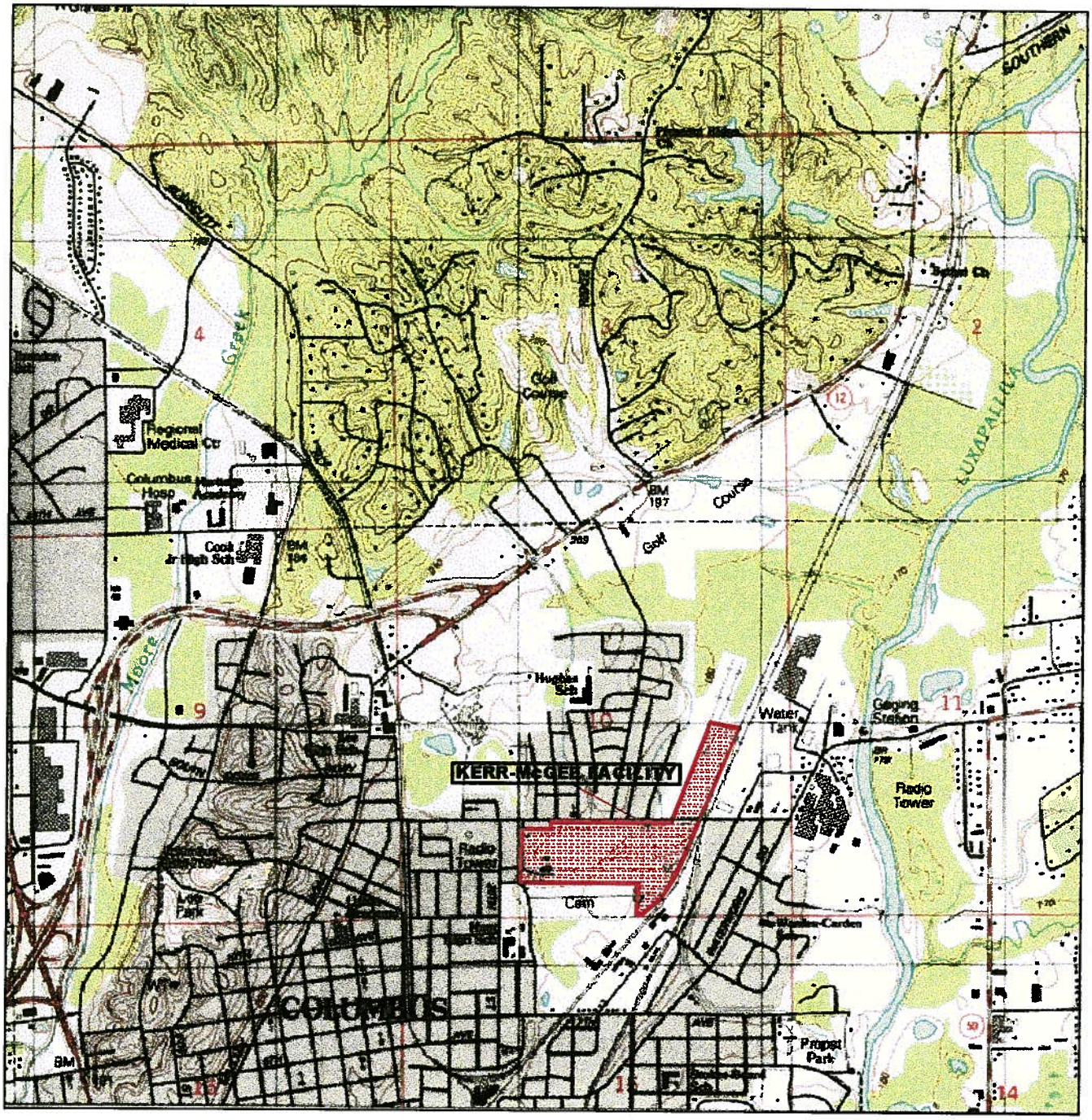
Sincerely,

KERR-MCGEE CHEMICAL LLC
FOREST PRODUCTS DIVISION

Nick Bock
Manager, Regulatory Compliance and Environmental Affairs

cc: R. P. Murphey, Facility

Forest Products



QUADRANGLE LOCATION

COLUMBUS NORTH, MISS

LEGEND

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP

N

0 2000 FT

SCALE

FIGURE 1
SITE LOCATION MAP

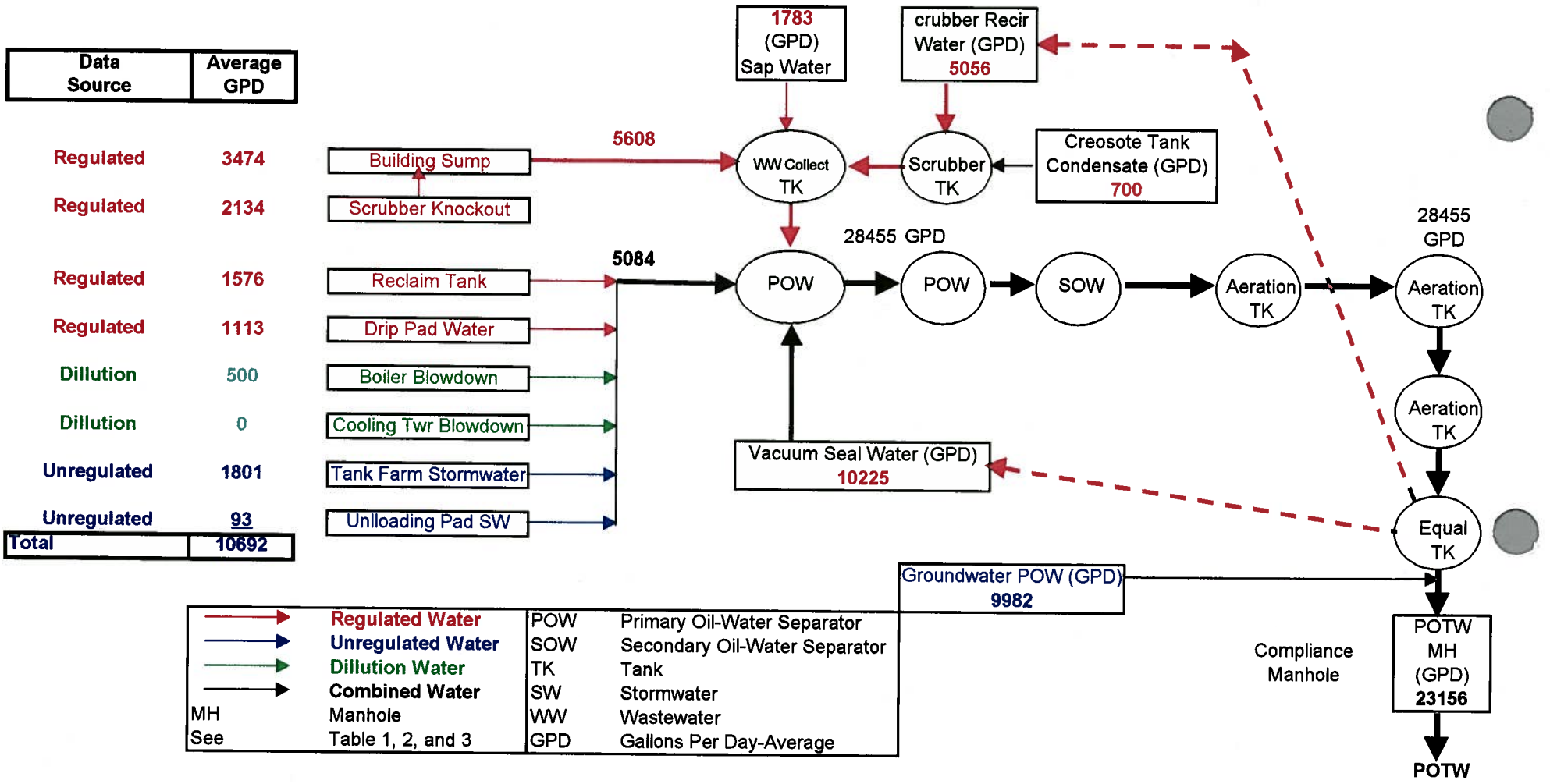
KERR-McGEE CORP. HYDROLOGIC SERVICES DEPT.

COLUMBUS, MISSISSIPPI

MAP DATE: 9/97 DRAWN BY: KB

Figure 1
Water Balance
Columbus, Mississippi
Based on 1999 Flows, Prepared By N. Bock
Wastewater Permit Application, March 2000

Data Source	Average GPD
Regulated	3474
Regulated	2134
Regulated	1576
Regulated	1113
Dillution	500
Dillution	0
Unregulated	1801
Unregulated	93
Total	10692



Col WWT.xls Schematic

Table 1
Wastewater Classification
Columbus, MS
N. Bock, Feburary, 2000

Type Water	Data Source	Average GPD	Wastewater Discharged With Groundwater Flow (GPD)	Groundwater Contribution Flow (GPD)	Wastewater Discharged Without Groundwater Flow (GPD)	Wastewater System Flow (GPD)	Ratio WW Sources/ System Flow	Quantity In Discharge Flow (GPD)
See 40 CFR 403.6	Figure 1	Figure 1	Figure 1	Figure 1	Calculation	Figure 1	Calculation	Calculation
Process	Bldg Sump/Knockout	5608	23156	9982	13174	28455	0.4630	2596
Process	Reclaim Tank	1576	23156	9982	13174	28455	0.4630	730
Process	Drip Pad Water	1113	23156	9982	13174	28455	0.4630	515
Dilution	Boiler Blowdown	500	23156	9982	13174	28455	0.4630	231
Dilution	Cooling Twr Blowdown	0	23156	9982	13174	28455	0.4630	0
Unregulated	Tank Farm Stormwater	1801	23156	9982	13174	28455	0.4630	834
Unregulated	Unlloading Pad SW	93	23156	9982	13174	28455	0.4630	43
Process	Sap	1783	23156	9982	13174	0	0.4630	825
Process	Condensate	700	23156	9982	13174	28455	0.4630	324
Process	Scrubber Recirc	5056	23156	9982	13174	28455	0.4630	2341
Process	Vacuum Seal	10225	23156	9982	13174	28455	0.4630	4734

Total Influent	**28455**
Scrubber Recirculation	**-5056**
Vacuum Seal Recirculation	**-10225**
Groundwater Discharged	**9982**
Influent	**23156**

Total Discharge W/O GW	**13174**
Groundwater Discharged	**9982**
Total Effluent	**23156**

Table 2
Combined Wastestream Formula
Columbus, MS

Feburay 14, 2000

Combined Wastestream Formula 40 CFR 403.6(e)	Alternative Concentration: Pretreatment Limit C_i	Alternative Concentration: Average GPD F_i	Alternative Concentration: Pretreatment Limit C_i	Alternative Concentration: Expression Solution $(C_1 X F_I) / F_I$	Dilution Effect: Total GPD F_T	Dilution Effect: Dilution GPD F_D	Dilution Effect: Total GPD F_D	Dilution Effect: Expression Solution $(F_T X F_D) / F_D$	ALC: Expression Solution C_T
Combined Wastestream Calculations 40 CFR 403.6(e)									
Boulton Subcategory	100								
WWT Flow Without Recirc/GW	100	26061	26061	100.0	28455	500	28455	0.98243	98.24
WWT Flow With Recir/GW	100	10780	10780	100.0	23156	500	23156	0.97841	97.84

Pretreatment System Influent: Wastewater Sources (GPD)	WWT Flow Without Recirc/GW KMCLLC: Dilution F_D	Unregulated	Regulated F_i	Total Water F_T
WW Collection Tank	0	0	7539	
Drip Pad Water	0	0	1113	
Scrubber Knockout	0	0	2134	
Reclaim Tank	0	0	1576	
Vacuum Seal Water	0	0	10225	
Building Sump	0	0	3474	
Boiler Blowdown	500	0	0	
Cooling Water Blowdown	0	0	0	
Tank Farm Stormwater	0	1801	0	
Unloading Pad Stormwater	0	93	0	
Sub Totals (Water Before Recycle)	500	1894	26061	28455
See Water Balance Schematic				

Pretreatment System Effluent: Wastewater Sources (GPD)	WWT Flow With Recir/GW KMCLLC: Dilution F_D	Unregulated NA	Regulated F_i	Total Water F_T
WW Collection Tank	0	0	7539	
Drip Pad Water	0	0	1113	
Scrubber Knockout	0	0	2134	
Reclaim Tank	0	0	1576	
Vacuum Seal Water	0	0	10225	
Building Sump	0	0	3474	
Boiler Blowdown	500	0	0	
CW Blowdown	0	0	0	
Tank Farm Stormwater	0	1801	0	
Unloading Pad Stormwater	0	93	0	
Vac Seal Water Recirc.	0	0	-10225	
Scrub Water Recirc.	0	0	-5056	
Contaminated GW	0	9982	0	
Sub Totals (Water Before Recycle)	500	11876	10780	23156
See Water Balance Schematic				0

Table 3
Wastewater Classification

We have reviewed the regulations contained in 40 CFR 403.6(e) and 40 CFR 429 . Based on this review, we believe the various wastestreams generated by the facility should be classified as follows:

1) The footnote for "FD (a)" in our view clearly states that wastestreams which result in substantial dilution should be accounted for in the combined wastestream formula. These include comments in :

a) Boiler blowdown
b) Non-contact cooling water
c) Demineralizer backwash

The footnote for "FD(a)" also gives the control authority to classify wastestreams as diluted or **unregulated** based on information provided by the user.

2. The footnote for "FD (c)" classifies as dilutive, wastestreams pursuant to NRDC Vs. Costle Consent Decree meeting any of four tests.

a) The pollutants of concern are not detectable in the effluent from the industrial user. This is clearly not the case with creosote contaminated groundwater, creosote contaminated tank farm water, and cleaning water used to remove creosote. Visual observations of these waters verifies creosote constituents are present in these wastestreams.

b) The pollutants of concern are present only in trace amounts and are neither causing nor likely to cause toxic effects. This is clearly not the case with groundwater, tank farm water, and cleaning water. These wastes contain pesticides and are listed EPA listed hazardous waste FO34.

c) The pollutants of concern are present in amounts too small to be effectively reduced by technologies known to the administrator. This is clearly not the case with groundwater, tank farm water, and cleaning water. The Columbus industrial pretreatment system effectively reduces the constituent levels as shown by years of monitoring.

d) The wastewater contains only pollutants which are compatible with the general policies of the POTW. We do not believe pesticides are compatible with the POTW and 40 CFR 429 limits pollutants from a wood treating plant for this very reason with categorical standards.

3) The appendix lists industrial subcategories considered to have dilute wastewater for the purpose of the combined Wastestream formula. The timber Products category is listed: however, neither the boulton nor steaming subcategories are listed unlike the barking finishing and hardboard categories.

4) Based on comments 1-3 above we conclude with respect to the combined wastestream formula:

a) The boulton and steaming subcategories are not dilutive.
b) The facility's dilutive wastewater should be limited to boiler blowdown, non-contact cooling water. Stormwater from the tank farms, unloading pad and groundwater should be catagorized as unregulated in the compined wastestream formula. See Tables 1 & 2.

c) The POTW can exercise it's discretion

d) The facility's wastewater may not be exempted from categorical pretreatment standards (NRDC Vs. Costle)

5) No other wood preserver in the country, to our knowledge, has groundwater, tank farm water, or cleaning water categorized as dilution water. However, use of the unregulated category provides the same benefit as classifying waters as regulated.

State of Mississippi
Water Pollution Control
PERMIT

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

THIS CERTIFIES THAT

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION
COLUMBUS, MISSISSIPPI

has been granted permission to discharge wastewater into

Columbus POTW (MS0023868)

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

HEAD, OFFICE OF POLLUTION CONTROL
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued: October 11, 1994

Expires: October 10, 1999

Permit No. MSP090021

PART I

A. PRETREATMENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning October 11, 1994, and lasting until October 10, 1999, the permittee is authorized to discharge from outfall(s) serial number(s) 001 (Pretreated Process Wastewater, Boiler Blowdown, and Remediated Groundwater).

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

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	kg/day (lbs/day)		Other Units (Specify)		Measurement	Sample
	Monthly Avg.	Monthly Max.	Monthly Avg.	Monthly Max.	Frequency	Type
Flow-M^3/day (MGD)	--	--	--	.075 MGD	Once/Day	Continuous
Oil and Grease	--	--	Report (mg/l)	59 mg/l	Twice/Month	Grab
Total Phenols	14.8(32.6)	22.2(48.8)	52 mg/l	78 mg/l	Twice/Month	Grab
	kg/day (lbs/day)		Other Units (Specify)		Measurement	Sample
	Annual Avg.	Annual Max.	Annual Avg.	Annual Max.	Frequency	Type
Pentachlorophenol	.34(.744)	.51(1.12)	1.19 mg/l	1.79 mg/l	Twice/Year	Grab
Chromium, Total	--	.67(1.48)	Report (mg/l)	2.36 mg/l	Twice/Year	Composite*
Copper, Total	--	.84(1.85)	Report (mg/l)	2.95 mg/l	Twice/Year	Composite*
Arsenic, Total	--	.67(1.48)	Report (mg/l)	2.36 mg/l	Twice/Year	Composite*

2. The pH shall not be less than 5.0 standard units nor greater than 9.5 standard units and shall be monitored once per week with a grab sample of the effluent.

3. 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.

*Composite samples should consist of manual grab samples of equal aliquot volumes taken every four hours for the duration of the discharge during the 24-hour period.

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.

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.

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 furing 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.

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.

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.

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.

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

a. The permittee shall notify the Mississippi Department of Environmental Quality, 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, 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).

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.

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.

c. "Daily maximum" means the highest "daily discharge" over a calendar month.

d. "Monthly maximum" means the highest "daily discharge" over a calendar month.

e. "Yearly average" means the average of "daily discharges" over a calendar year, calculated as the sum of all "daily discharges" measured during the calendar year divided by the number of "daily discharges" measured during the calendar year. The yearly average for fecal coliform bacteria is the geometric mean of "daily discharges" during the calendar year. In computing the geometric mean for fecal coliform bacteria, the value one (1) shall be substituted for sample results of zero.

f. "Yearly maximum" means the highest "daily discharge" measured over a calendar year.

g. "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.

State of Mississippi
Water Pollution Control
PERMIT

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

THIS CERTIFIES THAT

KERR-MCGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION
COLUMBUS, MISSISSIPPI

has been granted permission to discharge wastewater into

Columbus POTW (MS0023868)

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

HEAD, OFFICE OF POLLUTION CONTROL
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued: October 11, 1994

Expires: October 10, 1999

Permit No. MSP090021

PART I

A. PRETREATMENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning October 11, 1994, and lasting until October 10, 1999, the permittee is authorized to discharge from outfall(s) serial number(s) 001 (Pretreated Process Wastewater, Boiler Blowdown, and Remediated Groundwater).

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

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	kg/day (lbs/day)		Other Units (Specify)		Measurement	Sample
	Monthly Avg.	Monthly Max.	Monthly Avg.	Monthly Max.	Frequency	Type
Flow-M^3/day (MGD)	--	--	--	.075 MGD	Once/Day	Continuous
Oil and Grease	--	--	Report (mg/l)	59 mg/l	Twice/Month	Grab
Total Phenols	14.8(32.6)	22.2(48.8)	52 mg/l	78 mg/l	Twice/Month	Grab
	kg/day (lbs/day)		Other Units (Specify)		Measurement	Sample
	Annual Avg.	Annual Max.	Annual Avg.	Annual Max.	Frequency	Type
Pentachlorophenol	.34(.744)	.51(1.12)	1.19 mg/l	1.79 mg/l	Twice/Year	Grab
Chromium, Total	--	.67(1.48)	Report (mg/l)	2.36 mg/l	Twice/Year	Composite*
Copper, Total	--	.84(1.85)	Report (mg/l)	2.95 mg/l	Twice/Year	Composite*
Arsenic, Total	--	.67(1.48)	Report (mg/l)	2.36 mg/l	Twice/Year	Composite*

2. The pH shall not be less than 5.0 standard units nor greater than 9.5 standard units and shall be monitored once per week with a grab sample of the effluent.

3. 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.

*Composite samples should consist of manual grab samples of equal aliquot volumes taken every four hours for the duration of the discharge during the 24-hour period.

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.

FORM 2-P

For Agency Use
Application Number

Date Received

STATE OF MISSISSIPPI
OFFICE OF POLLUTION CONTROL
P. O. BOX 10385
JACKSON, MISSISSIPPI 39289-0385

APPLICATION FOR A STATE OPERATING PRETREATMENT PERMIT

(Please print or type)

1. Name of Applicant:	KERR McGEE CHEMICAL LLC				
	FOREST PRODUCTS DIVISION				
2. Mailing Address of Applicant:					
Number & Street (P. O. Box):	2300 14th AVENUE NORTH				
City:	COLUMBUS	State:	MS	Zip:	39701
Telephone Number:	601/328-7551				
3. Applicant's Authorized Agent:					
Name and Title:	RONALD P. MURPHEY / PLANT MANAGER				
Number & Street (P. O. Box):	2300 14th Ave. NORTH				
City:	COLUMBUS	State:	MS	Zip:	39701
Telephone Number:	601/328-7551				
4. Facilities Location:					
Number & Street (P. O. Box):	2300 14th AVE. NORTH				
City:	COLUMBUS	County:	LOWNDES		
Latitude (Deg., Min., Sec.):	33, 32, 30				
Longitude (Deg., Min., Sec.):	88, 24, 32				

12. Facility Water Use:	
Estimate average volume in thousand gallons per day for the following types of water usage at this facility.	
Noncontact Cooling:	1
Boiler Feed:	20
Process (Including Contact Cooling):	3
Sanitary:	1
Other:	2
Total:	27
13. List all Facility Discharges:	City of Columbus POTW

Other water losses (surface water, product consumption, evaporation). Indicate volume in thousand gallons.
None

14. Give narrative description of process(es) producing discharge, or in case of no discharge, that generates wastewater.
There is discharge from Boiler Blowdown. Some wood is dried through a Boulton process. The water that is removed from the wood is then treated and discharged. We have a groundwater recovery system that pumps water from recovery wells. This water runs through a oil/water seperator and is discharged.

15. List raw materials used:	1) Wood
	2) Creosote

17. Effluent Characteristics:

A. You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall to the city sewer. If your facility does not have a discharge indicate so and disregard.

1. POLLUTANT	2. EFFLUENT							3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANAL-YSES			a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
	(1) CONCENT-RATION	(2) MASS	(1) CONCENT-RATION	(2) MASS	(1) CONCENT-RATION	(2) MASS		a. CONCENT-RATION	b. MASS	(1) CONCENT-RATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	NA											
b. Chemical Oxygen Demand (COD)	NA											
c. Total Suspended Solids (TSS)	NA											
d. Ammonia (as N)	NA											
e. Flow	VALUE 75,000 GAL		VALUE NA		VALUE 35,000 GAL/DAY					VALUE		
f. Temperature (winter)	VALUE NA		VALUE		VALUE			°C		VALUE		
g. Temperature (summer)	VALUE NA		VALUE		VALUE			°C		VALUE		
h. pH	MIN 5	MAX 9	MIN 5	MAX 9				STANDARD UNITS				

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
e. Nitrogen, Total Organic (as N)		X												
f. Oil and Grease	X													
g. Phosphorus (as P), Total (7723-14-0)		X												
h. Radioactivity														
1. Alpha, Total		X												
2. Beta, Total		X												
3. Radium Total		X												
4. Radium 226, Total		X												
i. Sulfate (as SO_4) 14808-79-8)		X												

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
r. Magnesium Total (7439-95-4)		X												
s. Molybdenum Total (7439-98-7)		X												
t. Manganese Total (7439-96-5)		X												
u. Tin, Total (4770-31-5)		X												
v. Titanium Total (7440-32-6)		X												

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
4M. Cadmium, Total (7440-43-9)			X												
5M. Chromium, Total (7440-47-3)	X			<0.04	NA	NA	NA	NA	NA	1	mg/l	NA			
6M. Copper, Total (7440-50-8)	X			<0.03	NA	NA	NA	NA	NA	1	mg/l	NA			
7M. Lead, Total (7439-92-1)			X												
8M. Mercury, Total (7439-97-6)			X												
9M. Nickel, Total (7440-02-0)			X												
10M. Selenium, Total (7782-49-2)			X												

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon Tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
15V. 1,2-Dichloroethane (107-06-2)			X												
16V. 1,1-Dichloroethylene (75-35-4)			X												
17V. 1,2-Dichloropropane (78-87-5)			X												
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X												
20V. Methyl Bromide (74-83-9)			X												
21V. Methyl Chloride (74-87-3)			X												

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
27V. 1,1,1-Trichloroethane (71-55-6)			X												
28V. 1,1,2-Trichloroethane (79-00-5)			X												
29V. Trichloroethylene (79-01-6)			X												
30V. Trichlorofluoromethane (75-69-4)			X												
31V. Vinyl Chloride (75-01-4)			X												
GC/MS FRACTION - ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X												
2A. 2,4-Dichlorophenol (120-83-2)			X												

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
10A. Phenol (108-95-2)		X													
11A. 2,4,6-Trichlorophenol (88-06-2)			X												
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X												
2B. Acenaphtylene (208-96-8)			X												
3B. Anthracene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo (a) Anthracene (56-55-3)			X												

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
12B. Bis(2-Chloroisopropyl) Ether (102-60-1)			X												
13B. Bis(2-Ethylhexyl) Phthalate (117-81-7)			X												
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X												
15B. Butyl Benzyl Phthalate (85-68-7)			X												
16B. 2-Chloronaphthalene (91-58-7)			X												
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X												

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
24B. Diethyl Phthalate (84-66-2)															
25B. Dimethyl Phthalate (131-11-3)															
26B. Di-N-Butyl Phthalate (84-74-2)															
27B. 2,4-Dinitrotoluene (121-14-2)															
28B. 2,6-Dinitrotoluene (606-20-2)															
29B. Di-N-Octyl Phthalate (117-84-0)															
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)															

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
38B. Isophorone (78-59-1)															
39B. Naphthalene (91-20-3)															
40B. Nitrobenzene (98-95-3)															
41B. N-Nitrosodimethylamine (62-75-9)															
42B. N-Nitrosodi N-Propylamine (621-64-7)															
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)															
44B. Phenanthrene (85-01-8)															

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
8P. 4,4'-DDE (72-55-9)															
9P. 4,4'-DDD (72-54-8)															
10P. Dieldrin (60-57-1)															
11P. α-Endosulfan (115-29-7)															
12P. β-Endosulfan (115-29-7)															
13P. Endosulfan Sulfate (1031-07-8)															
14P. Endrin (72-20-8)															
15P. Endrin Aldehyde (7421-93-4)															

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERAGE VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
GC/MS FRACTION PESTICIDES (continued)															
22P. PCB-1248 (12672-29-6)															
23P. PCB-1260 (11096-82-5)															
24P. PCB-1016 (12674-11-2)															
25P. Toxaphene (8001-35-2)															

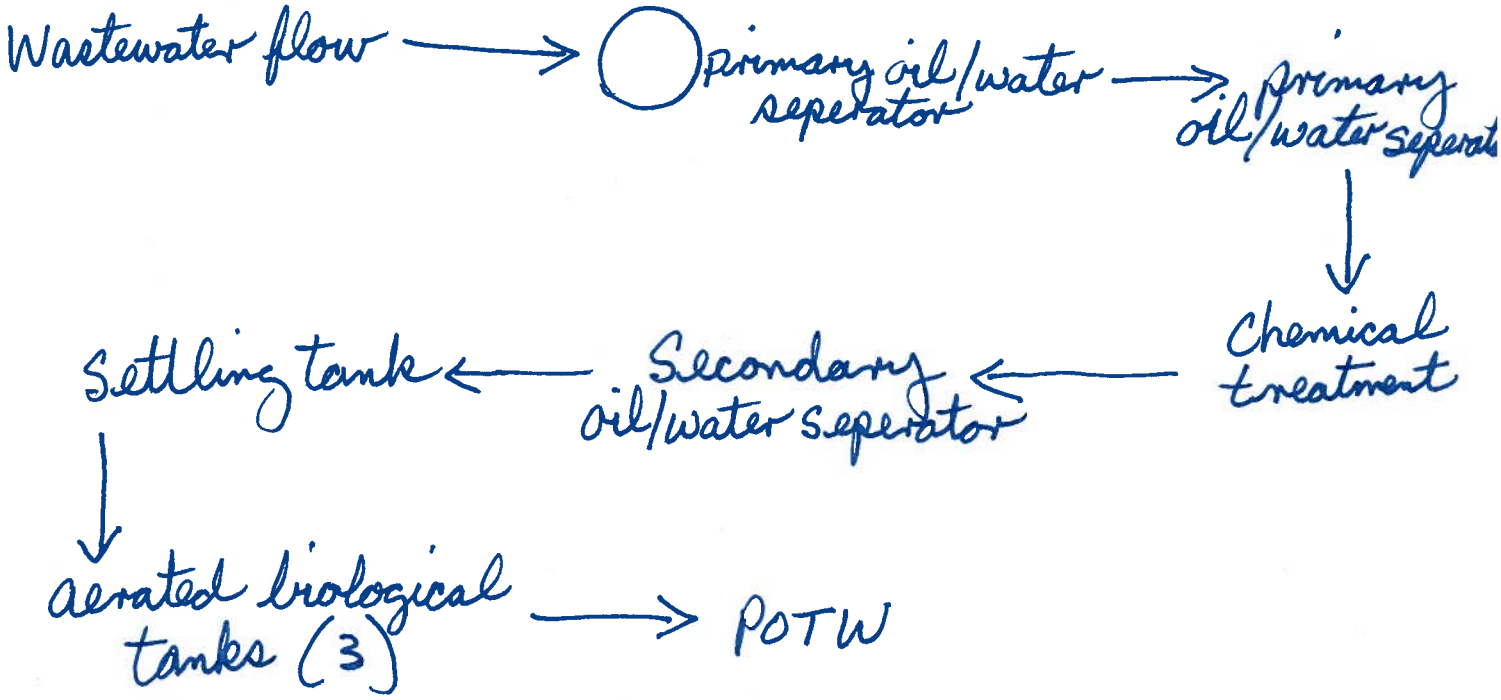
TABLE 1
TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS BY INDUSTRY CATEGORY

INDUSTRY CATEGORY	GC/MS FRACTION			
	Volatile	Acid	Base/Neutral	Pesticide
Adhesives and sealants	X	X	X	-
Aluminum forming	X	X	X	-
Auto and other laundries	X	X	X	X
Battery manufacturing	X	-	X	-
Coal mining	-	-	-	-
Coil coating	X	X	X	-
Copper forming	X	X	X	-
Electric and electronic compounds	X	X	X	X
Electroplating	X	X	X	-
Explosives manufacturing	-	X	X	-
Foundries	X	X	X	-
Gum and wood chemicals				
Tall oil rosin (subpart D)	X	X	X	-
Rosin based derivatives subpart F)	X	X	X	-
All other subparts	X	X	-	-
Inorganic chemicals manufacturing	X	X	X	-
Iron and steel manufacturing	X	X	X	-
Leather tanning and finishing	X	X	X	-
Mechanical products manufacturing	X	X	X	-
Nonferrous metals manufacturing	X	X	X	X
Ore mining (applies to the base and precious metals/subpart B)	-	X	-	-
Organic chemicals manufacturing	X	X	X	X
Paint and ink formulation	X	X	X	-
Pesticides	X	X	X	X
Petroleum refining	X	-	-	-
Pharmaceutical preparations	X	X	X	-
Photographic equipment and supplies	X	X	X	-
Plastic and synthetic materials mfg.	X	X	X	X
Plastic processing	X	-	-	-
Porcelain enameling	-	-	-	-
Printing and publishing	X	X	X	X
Pulp and paperboard mills				
Unbleached Kraft (subpart A)	2	X	2	X
Semi-chemical (subpart B)	2	X	2	2
(subpart C)	2	X	2	2
Unbleached Kraft-neutral sulfite semi-chemical (cross recovery) (subpart D)	2	X	2	2
Paperboard from wastepaper (subpart E)	X	X	2	X
Dissolving Kraft (subpart F)	X	X	2	2
Market bleached Kraft (subpart G)	X	X	2	2
BCT bleached Kraft (subpart H)	X	X	2	2
Fine bleached Kraft (subpart I)	X	X	2	2
Papergrade sulfite (subpart J)	X	X	X	2
Dissolving sulfite pulp (subpart K)	X	X	2	2
Groundwood-chemical-mechanical (subpart L)	X	X	2	2
Groundwood-termo-mechnical (subpart M)	X	X	2	2
Groundwood-CMN papers (subpart N)	X	X	2	2
Groundwood-fine papers (subpart O)	X	X	2	2
Soda (subpart P)	X	X	2	2
Deink (subpart Q)	X	X	2	X
Nonintegrated-fine papers (subpart R)	2	X	2	2
Nonintegrated-tissue papers (subpart S)	X	X	2	X
Tissue from wastepaper (subpart T)	X	X	2	X
Papergrade sulfite (subpart U)	X	X	X	2
All other subparts (V through Z)	Determined case by case, unless superseded by regulation.			
Rubber processing	X	X	X	-
Soap and detergent manufacturing	X	X	X	-
Steam electric power plants	X	X	-	-
Textile mills	X	X	X	-
Timber products processing	X	X	X	X

2 - Do not test unless "reason to believe" it is discharged.

i) We use chemical treatment using anionic and cationic flocculants. We then go through an oil/water seperator. It then flows through 3 aerated tanks with biological treatment.

(a)



(b)

Groundwater flow → OIL/WATER SEPERATOR → POTW

Attachment A

PERMIT (NPDES) #: MS 0 9 0 0 2 1

TRANSACTION CODE (N=NEW C=CHANGE): N

FACILITY DATA SCREEN #1 (FAC1)

*FACILITY NAME: Kerr-McGee Chemical Corp. - Forest Products

COGNIZANT OFFICIAL: Mr. Anthony Hellis

COUNTY CODE (See Table #4): 087

TELEPHONE NUMBER: 601-328-7551

*CITY: Columbus

*SIC CODE (See Table #1): 2491

TYPE OF APPLICATION (See Table #2):

*FAC. OWNERSHIP (See Table #3):

TYPE OF PERMIT: S

*FEDERAL GRANT 92-500 ONLY "s":

IF THIS IS A REISSUANCE, DID THE PERMIT LIMITS CHANGE (Y/N):

WATER QUALITY LIMITS: Y

*FACILITY INACTIVE CODE:

*FACILITY INACTIVE DATE: - -

SUB-REGION: NO=NRO CO=CRO SO=SRO: MO

ENGINEER: (initials) MRB

*AVERAGE DESIGN FLOW: .075 MG

Permit Tracking (PTRK)

Engineer (u.d.e. #1): MRB

Permit Issued (P4099): 10-11-94

Permit Expires (P5099): 10-10-99

Facility Data Screen #2 (FAC2)

* River Basin = 0338

1018 - Big Black
0343 - Pearl River
0338 - Upper Tombigbee River
0340 - Lower Tombigbee River
0408 - Tennessee River
1099 - Coastal Streams
1021 - South Independent
1011 - Yazoo River
0342 - Pascagoula River
1006 - Mississippi River

Receiving Waters: Columbus POTW (MS0023868)

USER DATA ELEMENTS

Facility Type (rdf1): P

I = Industrial
X = Ind. No-rpt.
P = Pretreatment
M = Municipal
D = Domestic
N = Dom. No-rpt.
F = Federal

Toxic & Bio-Assay Code (rdf2):

T = Toxic
A = Acute
C = Chronic

Treatment Type (rdf4): API

AC = Activated Carbon
AS = Activated Sludge
AL = Aerated Lagoon
AN = Anaerobic Lagoon
API = API Separator
AW = Artifical Wetlands
CC = Contact Cooling
CL = Conventional Lagoon
CT = Cooling Tower
DW = Deepwell
DF = Diffuser
EOP = End of Pipe
EV = Evaporation
HC = Hydrograph Controlled
ML = Multiple Lagoon
NC = Non-Contact Cooling
OS = Off Site Disposal
OF = Overland Flow
OD = Oxidation Ditch
PH = PH Adjustment
PC = Physical / Chemical
PS = Primary Sedimentation
RR = Recyle and Reuse
RO = Reverse Osmosis
RBC = Rotating Biological Contractor
SF = Sand Filter
SS = Secondary Sedimentation
SI = Spray Irrigation
TF = Trickling Filter

OUTFALL GENERAL DATA SCREEN (OFLG)

**PERMIT # : MSP0900 21

**TRANSACTION CODE (N=New C=Change) : N

**DISCHARGE NUMBER : 001

**REPORT DESIGNATOR : A

*INITIAL REPORT DATE : 11-01-94

*REPORT UNITS : M

*NUMBER OF UNITS IN REPORT PERIOD : 001

***TOTAL NUMBER OF UNITS DUE : 060

*INITIAL STATE SUBMISSION DATE : 12-28-94

STATE SUBMISSION UNIT :

PIPE DESCRIPTION : Pretreated Process Wastewater Boiler Blowdown *RPA Ed. A Groundwat

SEASONAL DMR PRINTING INDICATORS : Y Y Y Y Y Y Y Y Y Y Y Y

INITIAL LIMIT DATES : START __-__-__ END __-__-__

INTERIM LIMIT DATES : START __-__-__ END __-__-__

FINAL LIMIT DATES : START 10-11-94 END 10-10-99

PIPE INACTIVE CODE : __

PIPE INACTIVE DATE : __-__-__

** Items marked with a double asterisk are items that MUST be entered before form can be entered into the PCS system.

* Items marked with just one asterisk are items that the EPA would very much like to see but are not necessary for input into PCS.

*** - See Warren if the life of this permit is other than 5 years

All other items are optional

-- Permit = MSP0900021

- - - - - * Primary DMR Mailing Address - - - -

Facility Name: Kerr-McGee Chemical Corp.

Address Line1 (MST1): PO Box 906

Address Line2 (MST2):

CTY: Columbus ST: MS Zip: 39703

- - - - - Alternate DMR Mailing Address - - - -

Facility Name:

Address Line1 (AST1):

Address Line2 (AST2):

CTY: ST: Zip:

- - - - - Facility Location Address - - - -

Facility Name:

Address Line1 (RST1):

Address Line2 (RST2):

CTY: ST: Zip:

Telephone: 601 - 328 - 7551

** Items marked with a double asterisk are items that MUST be entered before t
form can be entered into the PCS system.

* Items marked with just one asterisk are items that the EPA would very much
like to see but are not necessary for input into PCS.

All other items are optional

PASSED

INDUSTRIAL - NEW SOURCE PRETREATMENT PERMITS (contd)

U.S. Motors 18,000 gpd Chlorinated ethane	Neshoba/Philadelphia HCR Toluene, Vinyl Chloride	MSP091064 Zinc

PASSED

INDUSTRIAL - PRETREATMENT PERMIT REISSUANCE

Kerr-McGee Chemical Corp., Forest Products Divis	Lowndes/Columbus POTW	MSP090021

INDUSTRIAL - PRETREATMENT PERMIT MODIFICATION

Amoco Oil Company BTEX	Lauderdale/Meridian POTW 7,200 gpd oil/water sep. Air stripper.	MSP090574

INDUSTRIAL - NEW SOURCE STATE OPERATING PERMITS

Ronald Tamor Dairy Exist 120	Pike County	OPC 94-053
Pat Ard Dairy Exist 175 cows	Silverspring S Bogue Chitto Lincoln County Topisaw Creek	OPC 94-086
Steve Smith Dairy Exist 10	Copiah County	OPC 94-079
Triangle B Farms 66,000	Sweetwater Creek Newton County	OPC 94-141
Doris and Mike Bruce Poultry 10,000	Simpson County	OPC 94-101
Maurice Layton Poultry 96,000	Simpson County	OPC 94-105
James D. Blackburn Poultry 20,000	Newton County	OPC 94-145
Michael Brewer Poultry 103,000	Wayne County	OPC 94-119
Tim Brantley Poultry 90,000	ake County	OPC 9[illegible]-142

Poultry

MB

PERMIT BOARD - PROPOSED AGENDA

INDUSTRIAL WASTEWATER CONTROL BRANCH

JERRY W. CAIN - CHIEF Oct. 3, 1994 DATE

October 11, 1994 DATE OF PERMIT BOARD MEETING

NEW/REISSUE/MODIFY/REVOKE PERMIT NO. COUNTY

NAME: _____ _____ _____

NATURE OF OPERATION: _____

_____

TYPE OF WASTEWATER: _____

TREATMENT UNITS: _____

OUTFALL(S) AND FLOW(S): _____

_____

DATE INSPECTED OR TO BE INSPECTED: _____

RECEIVING STREAM(S): _____

WATER QUALITY LIMITED? _____ WENT TO PUBLIC NOTICE? _____

EXPLANATION OF PERMIT AND LIMITATIONS: (IF MODIFICATION, WHAT HAS CHANGED?)

_____

_____

NEW/REISSUE/MODIFY/REVOKE hdr PERMIT NO. COUNTY

NAME: Kerr-McGee Chemical Corporation Forest Products Division MSP090021 Lowndes

NATURE OF OPERATION: Wood Preserving

_____

TYPE OF WASTEWATER: Process, Boiler Blowdown, And Remediated Groundwater (Oil and Grease, Phenols, Cr, Cu, As, And Pentachlorophenols)

TREATMENT UNITS: Oil/water Separators, Chemical Treatment, And Biological units.

OUTFALL(S) AND FLOW(S): Flow (MAX) - .075 MGD

_____

DATE INSPECTED OR TO BE INSPECTED: February 24, 1994

RECEIVING STREAM(S): Columbus POTW (MS0023868)

WATER QUALITY LIMITED? Yes WENT TO PUBLIC NOTICE? Sept. 1, 1994

EXPLANATION OF PERMIT AND LIMITATIONS: (IF MODIFICATION, WHAT HAS CHANGED?)

his is A categorical facility (40 CFR 429.85 and 429.95) that has categorical, water quality based, and City recommended conventional pollutant limits. Pentachlorophenol, Total Chromium, Total Copper, And Total Arsenic limitations & monitoring requirements Are being Added. The oil And grease limits Are changing from 50 mg/L (Avg) And mg/L (MAX) to 59 mg/L (MAX). The limits of 32.6 lbs/day (Avg), 52 mg/L (Avg), And 78 mg/L (MAX) Are being Added to the Total Phenols requirements. The monitoring frequency for Oil And Grease, Total Phenols, And pH is being reduced to twice/month, twice/month, And once/week respectively. Also, A