

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	PO Box 268859
Columbus, MS 39701	Oklahoma City, OK 731268859

Telecommunications

Туре	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	(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	SubProgram Start Date E	
Air	NSPS Subpart Dc	NSPS Subpart Dc 09/12/1990 06/03	
Air	SM	SM 06/06/1997 06/01/	
Hazardous Waste	Large Quantity Generator	Large Quantity Generator 04/01/1997	
Hazardous Waste	TSD - Not Classified	TSD - Not Classified 06/11/2001	
Water	PT CIU	PT CIU 10/11/1994 09/	
Water	PT CIU - Timber Products	PT CIU - Timber Products 10/11/1994 0	



	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 '	88 ° 24 '	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:	SWIMS
38 .51	34 .02		Township:	TerraServer
(033.510697)	(088.409450)		Range:	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 ADDR	RESS	OTHER INFORMATION		
LINE 1:	2300 14th Avenue and 20th Street	MASTER ID:	001696	
LINE 2:		COUNTY:	Lowndes	
LINE 3:	-, ">, 118	REGION	NRO	
MUNICIPALITY:	Columbus	SIC 1:	2491	
STATE CODE:	MS	AIR TYPE:	SYNTHETIC MINOR	
ZIP CODE:	39703-	HW TYPE:	TSD	
MAILING ADDRE	2300 Fourteenth Avenue North	SOLID TYPE: WATER TYPE: BRANCH:	INDUSTRIAL Chemical Branch	
LINE 2:			7	
LINE 3:	F	ECED CONTAC	T:	
MUNICIPALITY:	Columbus	,	31	
STATE CODE:	MS	BASIN:		
ZIP CODE:	39701-	Tombigbee Rive	r Basin	
AIR PROGRAMS	SIP PSD NSPS	NESHAPS N	IACT	



Mississippi Department of Environmental Quality Office of Pollution Control

Pemits				
PROGRAM	PERMIT TYPE	PERMIT #	MDEQ PERMIT CONTAC	T 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
Complianc	e Actions		1	
MEDIA	ACTIVITY TYPE	SCHEDULED	COMPLETED INSPECTED	ОВ
HAZ WASTE	Compliance (Groundware) Monito	ri 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, D	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	
Enforceme	nt Actions			
MEDIA	ENFORCEMENT STEP	DETERMINED	RESOLVED EMPLOYER	E ASSIGNE
HAZ. WASTE	AGREED ORDER	6/16/99	5/18/00 Hamil, Larr	у
HAZ. WASTE	APPARENT VIOLATION	6/16/99	5/18/00 Hamil, Larr	у
AIR	APPARENT VIOLATION	6/16/99	5/18/00 Hamil, Larr	y ,
AIR	AGREED ORDER	6/16/99	5/18/00 Hamil, Larr	у

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Hole - Blank	
Site Name: Kt/	
Official / Legal Name:	/In CO 0 /1
Air Type:	The Menor Type:
нw туре:	SW Type:
Site General Inf	ormation
County:	LOPAZES
Contact Name: MK	Murphy REPT
Contact Title:	728-7551 and
Contact Phone:	728-7551 and 7390 14+1 Ave @ 20+4 5+
Physical Address City, State, Zip:	2300 14+1, AVE DE MS 39703
Oily, Care, Cr	1. A 216
Mailing Address	PO 15 0 70 0 39703
City, State, Zip:	Colon for
Owner's Name:	,
Owner's Address	
City, State, Zip:	
Operator or	
Contractor Name: Address City,	
State, Zip:	
Site Identifica	ation Information
	to the Hun
ECED Contact:	
sic1: 249	/ 3102.
	5 digit ID assigned by Air Divisio
Dunn and Bradstn	et Number:
City Decin	
Site Basin	Lee Barra Barra
10m5y	but King Bain
Air Detail	
Air Programs	PSD I NSPS NESHAPS MACT

MDEQ OPC Locational Data Entry Form

Page 1 of <u>32</u>
Site Name McGer
Address: 2300 - 14th AVENUE NORTH MSP 090001 City: Coumsus State: MS Zip: 39701 County:
Site Unique Identifier: FRONT DOOR TO DEPUCE
Site Unique Identifier Description:
(Permit#, EPA ID, Monitoring Station #, etc)
33 30 38.51 Latitude: 33 Degrees 58 Minutes 15.56 Seconds
Latitude: $\frac{38}{88}$ Degrees $\frac{58}{424}$ $\frac{13176}{34}$ $\frac{32}{02}$
Longitude: Degrees 29 Minutes 01 30 Seconds
Elevation: 236 ft.
Method of Collection: YG3 - Differential (± 3m) G6 - Autonomous (± 100m)
Point Description: 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: Date Collected: // Julo

Locational Data Entry Form Supplement Page 2 of 32

Site Name: KERR - Mc Gree
Point Unique Identifier: Closed Surface impoundment Point Unique Identifier Description: RCA NOTATE RECEIVED RL (Stack #, Discharge #, Monitoring Station #, etc)
Latitude: 3 Degrees 30 Minutes 34.53 Seconds
Longitude: 15 Degrees 14 Minutes 36.44 Seconds
Elevation: 187 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 XSD - 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:
DRO 1/70/0

Locational Data Entry Form Supplement Page 3 of 37

Site Name: Kerr	McGEE
Point Unique Ide	entifier: <u>CME-3</u> entifier Description: <u>Monitoring (Well (RCM-641)</u>) erge #, Monitoring Station #, etc)
Latitude: 33 D	Degrees 30 Minutes 35 . 14 Seconds
Longitude: <u>00</u>	Degrees 24 Minutes 36 . 19 Seconds
Elevation: <u>M3</u> f	īt.
Method of Collec	ction:G3 - Differential(± 3m) G6 - Autonomous(± 100m)
Point Description	on: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 FacilityPU - Process UnitWL - Well
	WM - Water Monitoring Station AM - Air Monitoring Station OT - Other (Describe in Comments) UN - Unknown
Comments:	
Collected By:	Date Collected: // JULOD

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Point Unique Ident	ifier: CME-5	
Point Unique Ident	ifier Description: RCRA GW Monitorine Well	<i>)</i> ==
(Stack #, Discharg	ifier Description: RCRA GW Monitoring Well e #, Monitoring Station #, etc)	•
	0 W	
	rees 30 Minutes 28 .69 Seconds	
Longitude: 🖔 Deg	rees 24 Minutes 14 .29 Seconds	
Elevation: what.		
	v € 7	
Method of Collecti	on: $X = G3 - Differential(\pm 3m)$	
2. (6) 7	G6 - Autonomous (± 100m)	
: D-int Donomintion:	PP - Plant Entrance (Personnel)	
Point Description:	PF - Plant Entrance (Freight)	W 5
, = *	AS - Air Release Stack	
	AV - Air Release Vent	
	ST - Storage Vent	9
	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	
	XWL - Well	
	WM - Water Monitoring Station	
	AM - Air Monitoring Station	65
	OT - Other (Describe in Comments)	
	UN - Unknown	
Comments:		
		1.5
		± %
9		

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Site Name: Kerr - McGes
Site Name. KBKE-11CGEE
Point Unique Identifier: CME-6
Point Unique Identifier Description: RCRA 600 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: XG3 - 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
OT - Other (Describe in Comments)
UN - Unknown
Comments:
Collected By: Ann Land
Collected By: Mountains Date Collected: 1/1000

Locational Data Encry Form Supplement Page 6 of 72

Site Name: EME: 7 Kerr - McGer
Point Unique Identifier: <u>CME-7</u> Point Unique Identifier Description: RCMS GW Monitory Wall (Stack #, Discharge #, Monitoring Station #, etc)
Latitude: 3 Degrees 3 Minutes 30.69 Seconds
Longitude: 88 Degrees 24 Minutes 19.30 Seconds
Elevation: 190 ft.
Method of Collection: G3 - Differential(± 3m) G6 - Autonomous(± 100m)
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 XWL - Well WM - Water Monitoring Station AM - Air Monitoring Station OT - Other (Describe in Comments) UN - Unknown
Comments:
Date Collected: // Julio

Locational Data Encry Form Supplement Page 7 of 32

Site Name: Kere-McGer
Point Unique Identifier: CME.8
Point Unique Identifier Description: RCRA Montary Well
(Stack #, Discharge #, Monitoring Station #, etc)
(Stack #, Discharge #, Honizoring Beautiful
Latitude: 3 Degree's 30 Minutes 26.71 Seconds
Longitude: 46 Degrees Minutes 30.12 Seconds
Elevation: 140 ft.
Method of Collection: G3 - Differential (± 3m) G6 - Autonomous (± 100m)
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
OT - Other (Describe in Comments)
UN - Unknown
Comments:
Collected By: Hours with Date Collected: / July

Locational Data E. ry Form Supplement Page 6 of 32

Site Name: Kerr McGee
Point Unique Identifier: <u>Cmw 1AR</u>
Point Unique Identifier Description: Russ Gw Montering well (Stack #, Discharge #, Monitoring Station #, etc)
Latitude: 33 Degrees 30 Minutes 38 .52 Seconds
Longitude: 8 Degrees 24 Minutes 29 . 79 Seconds
Elevation: 144ft.
Method of Collection: χ G3 - Differential(\pm 3m)
G6 - Autonomous (± 100m)
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 OT - Other (Describe in Comments) UN - Unknown
Comments:
Collected By: April Date Collected: //////

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Site Name: KERR-McGRE
Point Unique Identifier: CMW3 Point Unique Identifier Description: RCRA Menitoring Well (Stack #, Discharge #, Monitoring Station #, etc)
Latitude: 33 Degrees 30 Minutes 34 .42 Seconds
Longitude: <u>88 Degrees</u> <u>24 Minutes</u> <u>31.92 Seconds</u>
Elevation: 190ft.
Method of Collection:
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 OT - Other (Describe in Comments) UN - Unknown
Comments: Date Collected: // Julos
Collected By: Date Collected: / Society

Locational Data Entry Form Supplement Page 10 of 32

Site Name: Kerr-Mc Ger
Point Unique Identifier:
Longitude: 68 Degrees 24 Minutes 32 .36 Seconds
Elevation: 177ft.
Method of Collection: > G3 - Differential(± 3m)
Method of Collection:G6 - Autonomous(± 100m)
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 OT - Other (Describe in Comments) UN - Unknown
Comments:
Date Collected: // Tuco

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——————————————————————————————————————
Site Name: Kerr-McGer
Point Unique Identifier:CMW 7 Point Unique Identifier Description: RCRA Menitoring Well (Stack #, Discharge #, Monitoring Station #, etc)
Latitude: 33 Degrees 30 Minutes 35 . 23 Seconds
Longitude: 88 Degrees 24 Minutes 33 . ZZ Seconds
Elevation: <u>67</u> ft.
Method of Collection: G3 - Differential(± 3m) G6 - Autonomous(± 100m)
Point Description: 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 OT - Other (Describe in Comments) UN - Unknown
Comments:
Callested By: Agric (1) Date Collected: /(JJL 80)

age 12 of 37	a
ite Name: KERR - Mc Goe	_
oint Unique Identifier: CMW 8 oint Unique Identifier Description: RCRA Menitoring Well Stack #, Discharge #, Monitoring Station #, etc)	-
Latitude: 33 Degrees 30 Minutes 34.53 Seconds	
Longitude: 88 Degrees 24 Minutes 33.93 Seconds	
Elevation: Maft.	
Method of Collection:G3 - Differential(± 3m) G6 - Autonomous(± 100m)	
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 OT - Other (Describe in Comments) UN - Unknown	
Comments:	
	ъ

Date Collected: / Julian

Collected By: Your Lufe

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ite Name: Kerr-McGor	
oint Unique Identifier:	
pint Unique Identifier Description: Run Menitoring Well	<u>x</u>
oint Unique Identifier Description: RCRA Menitoring Web Stack #, Discharge #, Monitoring Station #, etc)	i i
atitude: 33 Degrees 30 Minutes 30.12 Seconds	
ongitude: MDegrees 24 Minutes 27.62 Seconds	
levation:ft.	
ethod of Collection: $\sum G3$ - Differential($\pm 3m$)	
G6 - Autonomous (± 100m)	
oint Description:PP - Plant Entrance (Personnel) PF - Plant Entrance (Freight)	
AS - Air Release Stack	
AV - Air Release Vent	
ST - Storage Vent	a 6
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	**
─────────────────────────────────────	
WM - Water Monitoring Station	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AM - Air Monitoring Station	
OT - Other (Describe in Comments)	
UN - Unknown	
Comments:	in 9
	Si .
	-
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Locational Data Entry Form Supplement Page 14 of 32

Latitude:	ischarge #, Monitoring Station #, etc) 33 Degrees 30 Minutes 34 .46 Seconds 88 Degrees 24 Minutes 29 .95 Seconds
Elevation:	
	ollection:G3 - Differential(± 3m) G6 - Autonomous(± 100m)
Point Descr	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 OT - Other (Describe in Comments) UN - Unknown
Comments:	

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Site Name: Kerr-McGer
Point Unique Identifier:
Latitude: 33 Degrees 30 Minutes 35.06 Seconds
Longitude: 08 Degrees 24 Minutes 36.45 Seconds
Elevation: 160 ft.
Method of Collection: XG3 + Differential(± 3m) G6 - Autonomous(± 100m)
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 OT - Other (Describe in Comments) UN - Unknown
Comments:
Date Collected: //Julo 2

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M. C.
Site Name: KERR-McGes
Point Unique Identifier: CMW 19
Point Unique Identifier Description: RCRA Menitoria 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: 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 XWL - Well
WM - Water Monitoring Station
AM - Air Monitoring Station
OT - Other (Describe in Comments)
UN - Unknown
Comments:
$\mathcal{L}(\mathcal{L}(\mathcal{L}))$
Callegted By: Date Collected: // Julio

Locational Data Entry Form Supplement Page 17 of 37

Site Name: Kerr-McGor
Point Unique Identifier:
Point Unique Identifier Description: RCRA Menitoring (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
XWL - Well
WM - Water Monitoring Station AM - Air Monitoring Station OT - Other (Describe in Comments) UN - Unknown
Comments:
Date Collected: 1/ JULOO

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Latitude:	e Identifier Description: RCRA Menitoring (well ischarge #, Monitoring Station #, etc) 23 Degrees 30 Minutes 30 .57 Seconds 66 Degrees 24 Minutes 37 .80 Seconds
Elevation:	
Method of C	Collection:G3 - Differential(± 3m)G6 - Autonomous(± 100m) ription:PP - Plant Entrance (Personnel)PF - Plant Entrance (Freight)AS - Air Release StackAV - Air Release VentST - Storage VentWR - Water Release PipeSP - Lagoon or Settling PondLw - Liquid Waste Treatment UnitAE - Atmos. Emissions Trtmnt/DispSD - Solid Waste Tretmt/Disp UnitSS - Solid Waste Storage AreaLF - Loading FacilityPU - Process Unit
1 g 8	OT - Other (bescribe in comment)

Locational Data Entry Form Supplement Page 19 of 32

Site Name: KERR-Mc Gree
Point Unique Identifier:CMW 27 Point Unique Identifier Description: RCRA Menitoring Well (Stack #, Discharge #, Monitoring Station #, etc)
Latitude: 33 Degrees 30 Minutes 35.27 Seconds
Longitude: 88 Degrees 24 Minutes 16.83 Seconds
Elevation: 170 ft.
Method of Collection:
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 OT - Other (Describe in Comments) UN - Unknown
Comments:
Date Collected: // Tulo

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Site Name: Kerr-McGer
Point Unique Identifier: <u>CMW 28</u> Point Unique Identifier Description: RCRA Menitoring Well (Stack #, Discharge #, Monitoring Station #, etc)
Latitude: 13 Degrees 30 Minutes 35 .17 Seconds
Longitude: 46 Degrees 4 Minutes 14.45 Seconds
Elevation: (8) ft.
Method of Collection: G3 - Differential(± 3m) G6 - Autonomous(± 100m)
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 Treatment/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: Date Collected: //Julea

Locational Data Entry Form Supplement Page 2 of 32

ite Name: KERR-McGre
oint Unique Identifier:
oint Unique Identifier Description: RCRA Monitoring Well Stack #, Discharge #, Monitoring Station #, etc)
of the Discharge # Monitoring Station #, etc)
Stack #, Discharge #, Monitoring Stack #,
atitude: 33 Degrees 30 Minutes 27.63 Seconds
ongitude: 88 Degrees 24 Minutes 15.68 Seconds
Clevation: 180 ft.
Method of Collection: χ G3 - Differential (± 3m)
lethod of Coffection. / GS Difference (± 100m)
G6 - Autonomous (± 100m)
Point Description: PP - Plant Entrance (Personnel)
pr - 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
WM - Water Monitoring Station
AM - Air Monitoring Station
OT - Other (Describe in Comments)
UN - Unknown
Comments:
Date Collected: //TVL
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Site Name: Kenn-McGer
Point Unique Identifier: CMW 30
Point Unique Identifier Description: RCRA Meniterina Well
(Stack #, Discharge #, Monitoring Station #, etc)
Latitude: 13 Degrees 30 Minutes 27 . 17 Seconds
Longitude: 85 Degrees 24 Minutes 16.06 Seconds
Elevation: 172ft.
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
XWL - Well
WM - Water Monitoring Station
AM - Air Monitoring Station
OT - Other (Describe in Comments)
UN - Unknown
Comments:
SO (1571)
1711 11 A 2 17 111111

Locational Data Entry Form Supplement Page 23 of 32

Site Name: KERR-McGRE
Point Unique Identifier:
Point Unique Identifier Description: RCRA Menitoring Well (Stack #, Discharge #, Monitoring Station #, etc)
Latitude:DegreesMinutes Seconds
Longitude:DegreesMinutes Seconds
Elevation:ft.
Method of Collection:G3 - Differential(± 3m)
G6 - Autonomous (± 100m)
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 OT - Other (Describe in Comments) UN - Unknown
Comments: Well tempersity indecessfle
Date Collected: // TOZOO

Locational Data Entry Form Supplement Page 24 of 32

14
Site Name: Kerr-McGer
Point Unique Identifier: CMW 56 Point Unique Identifier Description: RCRA Menifolia (Well (Stack #, Discharge #, Monitoring Station #, etc)
Latitude: $\frac{23}{2}$ Degrees $\frac{30}{2}$ Minutes $\frac{26}{2}$ Seconds
Longitude: 68 Degrees 14 Minutes 34.94 Seconds
Elevation: 167ft.
Method of Collection: G3 - Differential(± 3m) G6 - Autonomous(± 100m)
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 OT - Other (Describe in Comments) UN - Unknown
Comments:
Date Callegade: Tul 60

Locational Data Entry Form Supplement Page 25 of 32

Site Name: KERR-Mc Gre
Point Unique Identifier: Cmw 57
Point Unique Identifier Description: RCRA Menitoring Well
(Stack #, Discharge #, Monitoring Station #, etc)
Latitude:DegreesMinutes Seconds
Longitude:DegreesMinutes Seconds
Elevation:ft.
Method of Collection:G3 - Differential(± 3m)
G6 - Autonomous (± 100m)
Point Description: 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 Treatment/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: Well Jampany incessely
Date Collected: // NOO

Page 26 of 32

Site Name: KERR - Mc Gree
Point Unique Identifier: <u>CMW 60</u> Point Unique Identifier Description: RCRA Monitoring Well (Stack #, Discharge #, Monitoring Station #, etc)
(Stack #, Discharge #, Monitoring Station #, etc)
Latitude: 33 Degree's 30 Minutes 28.97 Seconds
Longitude: 88 Degrees 24 Minutes 17 18 Seconds
Elevation: 167-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 FacilityPU - Process Unit
WL - Well WM - Water Monitoring Station AM - Air Monitoring Station
OT - Other (Describe in Comments) UN - Unknown
Comments:
Collected By Any Collected: (15020)
Collected By Jam Date Collected: (750000)

Locational Data Entry Form Supplement Page 27 of 32

Site Name: Kerr-McGer
Point Unique Identifier: <u>CMW 61</u> Point Unique Identifier Description: RCRA Menitoring Well (Stack #, Discharge #, Monitoring Station #, etc)
Latitude: 33 Degrees 30 Minutes 27.54 Seconds
Longitude: 84 Degrees ZA Minutes 12.26 Seconds
Elevation: 177ft.
Method of Collection: ${}$ G3 - Differential(\pm 3m) $=$ G6 - Autonomous(\pm 100m)
Point Description:
Comments:
Collected By: Man Date Collected: / Droc

Locational Data Entry Form Supplement Page 28 of 32

Site Name: Kenn-McGer
Point Unique Identifier: CMW 65
Point Unique Identifier Description: RCRA Menitering Well (Stack #, Discharge #, Monitoring Station #, etc)
Latitude:DegreesMinutes Seconds
Longitude:DegreesMinutes Seconds
Elevation:ft.
Method of Collection:G3 - Differential(± 3m) G6 - Autonomous(± 100m)
G6 - Autonomous (I 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 OT - Other (Describe in Comments) UN - Unknown
Comments: Well Jengerily inscessble
Date Collected: 1/MO

Locational Data Entry Form Supplement Page 29 of 32

Site Name: KERR-McGes
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: 44 Degrees 24 Minutes 33. 05 Seconds
Elevation: 177ft.
Method of Collection:G3 - Differential(± 3m) G6 - Autonomous(± 100m)
Point Description:
Comments:
Date Collected: //Trod

Page 30 of 32

Site Name: KERR McGER
Point Unique Identifier: TRENCH 1A \$18
Point Unique Identifier Description:
Point Unique Identifier Description:
(Stack #, Discharge #, Monitoring Station #, etc)
Latitude: 33 Degrees 30 Minutes 27.64 Seconds
Longitude: 56 Degrees 24 Minutes 3/ .62 Seconds
Elevation: 174ft.
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
WL - Well
WM - Water Monitoring Station
AM - Air Monitoring Station
$\sqrt{\text{OT}}$ Other (Describe in Comments)
UN - Unknown
at Ati a had-bution
Comments: Correction Detien Necovery trench - location franches 1A \$ 18
taken at approximate intersection of months in the
Date Collected: 1/7400

Locational Data Entry Form Supplement Page 3/ of 32

	•	Monitoring Station #, etc) 50 70 30 Minutes 28.84 Seconds 24 Minutes 24.66 Seconds	241
		Z. Minutes A Bo becomes	
levation:	<u>173</u> ft.		
ethod of C	ollection:	✓ G3 - Differential (± 3m)	
ā a		G6 - Autonomous (± 100m)	
oint Descr		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 OT - Other (Describe in Comments) UN - Unknown	
Comments:	Conective 20	ction recovery trench. South	er
			ili i

tional Data Entry Form Supplement

ge 32 of 32

Longitude: _	Degrees	Min		Seconds Seconds	z
Elevation:	ft.	n n n			
Method of Co.	llection:			ial(± 3m) us(± 100m)	# # # # # # # # # # # # # # # # # # #
Comments:		PF - Plant AS - Air F AV - Air F ST - Stora WR - Water SP - Lagor LW - Liqui AE - Atmos SD - Solic LF - Load: PU - Proce WL - Well WM - Water AM - Air	Entrance Release Sta Release Vent Release Pon or Settl Id Waste Tre S. Emission Id Waste Tre Id Waste Sto Ing Facilit Ess Unit Monitoring Ing Control	(Freight) ck t lipe ing Pond leatment Unit as Trtmnt/Disp etmt/Disp Unit brage Area cy	
		4			5

THIS FILE IS CLOSED

THE MATERIAL ENCLOSED IN THIS FILE BEGINS ON:

DATE: 1999

AND ENDS ON:

DATE: AOOO

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

	9	O&G		PHEN	OLS	рН
Permit Req		V/////////////////////////////////////	V/////////////////////////////////////	1000000		
Unit of Mea	FLOW				XXXXXXXX	
		mg/1	lbs.	mg/1	lbs.	SU
1 2						
3						
4						
5						6.90
6						
7						
8						
9					e	
10						
11						
12		7.00		11.25	2.80	6.60
13				11.20		0.00
14						
15				·		
16						
17	25,487					
18	31,025					
19	24,520					6.70
20	24,587					
21	27,509					
22	20,330			5		
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	2	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

_	_	_	 _	 _		_							
					12/20/2001	20000	1002/82/60	200000	06/29/2001	2000	100/20/2001	1000/30/20	Date
					24587		30115		24512		06800	Galloris	Flow
							Non-detect		Non-detect			mg/i	Chromiun
					0		Non-detect		Non-detect		c	LBS/DY	miun
							0.0156		Non-detect			mg/l	Copper
					0		0.00390115 Non-detect		Non-detect		0	LBS/DY	per
									0.0145			mg/l	Arsenic
					0		Non-detect		0.00295		0	LBS/DY	enic
					Non-detect		0.017		Non-detect		Non-detect	mg/l	Pentachlo
					Non-detect		0.00425126		Non-detect		Non-detect	LBS/DY	Pentachlorophenol

Table No. 2-3

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

		O&G		PHEN	OLS	рН
Permit Requ		2000000	1000000	2000000	1000000	
Unit of Meas		·	XXXXXXXX			
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	23,665					
2	28,565					
3	20,154				22.	
4	20,154					
5	29,657					
6	24,516		-			5 00
7	30,114					5.60
8	31,206					1
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			y		
19	25,888					
20	30,141					
21	21,025					6.60
22	18,333					
23	18,335					
24	18,336					
25	18,500	8				
26	22,564					
27	28,596					
28	27,874	9.00		9.65	2.23	6.60
29	28,565				,	
30	24,578					
31				2.		
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

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

		O&G		PHEN	OLS	рН
Permit Requ		10000000	10000000		10000000	10000000
Unit of Meas					XXXXXXXX	
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	26,335					
2	28,561		ļ <u>.</u>	****		0.00
3	20,336		58			6.60
4	28,950					
5						
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	· · · · · · · · · · · · · · · · · · ·					
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		PHENO	LS	рН	
Permit Require Unit of Measu	_	XXXXXXXX X	XXXXXXX	<u> </u>		XXXXXXXX	
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU	
1	25,890						
2	25,900		<u></u>				
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					G	
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	200						
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		PHEN	OLS	рН
Permit Requ			V////////	VVVVVV	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Unit of Mea	·			1	XXXXXXXX	
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	25,336					5.50
2						
3						
5						
	<u> </u>					
7	29,874			To the		
	24,587					6.40
9	· · · · · · · · · · · · · · · · · · ·	*				6.10
10	27,851 25,666					
11	27,555					
12	27,555					
13	26,986					
14	28,598					
15		9.00		1.90	0.46	6.10
16		3.00		1.50	0.40	0.10
17	26,879					
18	24,788					
19	24,788					
20	24,741		-			2
21	26,963			i i		
22	27,514	9.00		17.95	4.10	6.80
23	20,369	0.00		11.00	10	- 0.00
24	27,841					
25	21,151					
26						
27	25,858			11		
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

Dameit Dam	des es est	O&G		PHEN	OLS	рН
Permit Requestion Unit of Mea						
DATE	FLOW	mg/1	lbs.		Ibs.	SU
1	26,995	ilig/i	ins.	mg/1	ins.	30
2						
3			9			
4						
5	· · · · · · · · · · · · · · · · · · ·					
6		9.00		14.90	3.17	6.70
7		0.00		11.00	0.17	0.70
8	· · · · · · · · · · · · · · · · · · ·					
9	· · · · · · · · · · · · · · · · · · ·					
10	· · · · · · · · · · · · · · · · · · ·					
11	29,586					7.00
12						
13						
14						
15						
16						
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			4		
23	25,885					
24	29,780					
25						5.80
26	25,499					
27	24,562					
28						
29						
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



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

32,658

29,561

24,512 29,965

26,264

32,658

15,006

8.50

9.00

8.00

27

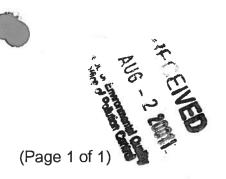
28 29

30 31

Avg.

Max.

Min.



рН

7.00

6.50

7.50

5.60

PHENOLS

9.53

14.90

4.15

1.91

3.04

0.78

Permit Requi	irement			ı		
Unit of Meas	urement	XXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
· 1	28,996			2.		
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				ı	
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			0 . 2,		8 111
22	26,591					
23	28,522		_			
24	16,256					
25	29,652	¥7				
26	24,789					

O&G

Table No. 2-3

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

Pormit Poqui	romont	O&G		PHEN	OLS	рН
Permit Requi		XXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	25,665	19, .			1.561	
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	·		<u> </u>		
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		ď.			
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



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

		O&G		PHEN	OLS	рН
Permit Requ		20000000	2000000	\	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Unit of Meas					XXXXXXXX	SU
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	30
1	17,025					
2	28,992					
3	27,456					7.60
4	25,884					7.60
5	24,691					
6	26,953					
7	27,825					
8	15,690					
9	22,589					
10	26,334	2.00		4145	0.70	7.00
11	20,856	9.00		4.15	0.72	7.80
12	11,556					
13	12,785					
14	10,115			<u> </u>		
15	10,115					
16	14,001			ļ		
17	12,389					7.50
18	9,966					7.50
19	11,332					
20	9,877					
21	9,965					
22	9,965					-
23	11,659					
24	10,236					7 70
25	10,475	8.00		2.50	0.22	7.70
26						
27	10,399					
28			<u> </u>			
29	9,789					
30	10,456					
31					- 4-	
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

FACILLITY DISCHARGE MONITORING RECORD

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

		O&G		PHEN	OLS	рН
Permit Requirer	nent				S(C	P
Unit of Measure		XXXXXXX	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			9		
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					
9	23,365					
1	23,009					
	18,556					7.50
	17,456					
	18,220					
1	19,577					
2	16,578					
26	38,990	8.00		11.95	3.87	
27	16,554					
1	14,501					7.70
29 30	16,994					
31	17,849					
Avg.	9,996					
Max.	19,130	9.00		44.13	9.06	7.45
Min.	38,190	10.00		76.30	14.24	7.70
	9,996	8.00		11.95	3.87	7.10

FACILITY DISCHARGE MONITORING RECORD

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

ormit Deguirement		O&G	O&G PHEN		LS	рН
Permit Require Jnit of Measu	_	XXXXXXXX >	(XXXXXXX	XXXXXXX X	(XXXXXXX X	(XXXXXXX
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	-			i	7.40
11	22,968					
12	25,106					
13	11,036			i i		
14	4,525					
15	5,108					
16	22,311					
17	25,787	9.00	······································	26.30	5.63	7.20
18	20,964			1	-	
19	21,156					
20	9,652					
21	4,012					
22	18,963			1		
23	24,155			1		
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

FACILITY DISCHARGE MONITORING RECORD

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

		O&G		PHEN	OLS	рН
Permit Requ		VAAAAAA	V/////////////////////////////////////	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	WWWWW	VVVVVV
Unit of Mea				XXXXXX	XXXXXXX	SU
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	7.80
1	3,820	<u> </u>		-	ļ	7.00
3	3,216					
4	3,688 2,499		 		0	
5	3,504					
6	21,006		65			::
7	19,225		-			*-
8	23,995	8.00		32.25	6.43	7.50
9	21,663	0.00		02.20	0.10	7.00
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				12.5-		7 6 6
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

FACILITY DISCHARGE MONITORING RECORD

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

	O&G	l	PHEN	OLS	pΗ
uirement	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1000000	1000000	
		-			
	mg/1	IDS.	mg/1	IDS.	SU
•			ļ	ļ	
		 			
					7.00
		-		ļ	7.80
					<u> </u>
	X 13			59	
	0.00	<u> </u>	2.50	0.14	7 70
-	8.00		3.50	0.14	7.70
			<u> </u>		
-	,			El .	
	1 1	<u> </u>			-
		<u> </u>			7.80
	<u>a</u>	9-71			7.80
		· ·		11	
		3942 78			
	259				
	12.00	*	0.50	0.08	7.80
	8 2 11				
	• 1	85			
	100	×			ii ii
	40				
3,710	æ				
8,773	10.00		2.00	0.11	7.78
22,223	12.00	@ J	3.50	0.14	7.80
3,156	8.00	20	0.50	0.08	7.70
	FLOW 4,655 4,520 4,102 5,012 3,860 20,162 3,700 3,200 3,156 4,025 4,655 5,102 5,008 4,100 4,100 22,223 19,847 18,382 20,144 22,003 4,206 3,399 3,507 3,859 19,347 18,996 20,118 4,156 4,788 3,930 3,710 8,773 22,223	FLOW mg/1 4,655 4,520 4,102 5,012 3,860 20,162 3,700 3,200 3,156 4,025 4,655 8.00 5,102 5,008 4,100 4,100 22,223 19,847 18,382 20,144 22,003 4,206 3,399 3,507 3,859 19,347 12.00 18,996 20,118 4,156 4,788 3,930 3,710 8,773 10.00 22,223 10.00	Surement Surement	Surement Surement Surement Surement Surement Surement XXXXXXX XXXXXXX XXXXXX XXXXXX XXXXXX	Surement Surement Surement Surement Surement Surement Suxxxxx XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX

FACIILITY DISCHARGE MONITORING RECORD

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

		O&G		PHENOLS		рН
	Permit Requirement Unit of Measurement		VVVVVV		WWWW	WWW
			XXXXXXX		XXXXXXX	XXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	8,110					
2	7,415					
3	5,990					
5	8,120					
6	23,369		<u> </u>			6.60
7	24,585					6.60
	20,119 22,758					
8						
	7,541		(1)			
10	7,620			·		
11	7,620				<u> </u>	
12 13	6,932	9.00	4	1.15	0.06	7.00
14	6,578	8.00		1.15	0.06	7.80
15	7,750				 	
	8,362	3, 3		7		
16	8,451					
	7,902					
18	5,796	7. v	- 10			-
19	5,522					7.60
21	27,581 22,115					7.60
22	5,689					
23	5,781					
24	6,205	7.50				
25	6,390	=				
26	26,993	(4(4)	860 10			
27	24,110	10.00		27.90	5.59	6.90
28	23,975	10.00	261 - 25	27.50	0.00	0.50
29	15,812					
30	16,100		te			* HEL
31	10,100			ji.		
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

FACILITY DISCHARGE MONITORING RECORD

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

D :: D		O&G		PHEN	OLS	рН
Permit Req			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	200000	100000	1000000
Unit of Mea	FLOW		XXXXXXX			
DATE 1		mg/1	ibs.	mg/1	lbs.	SU
2		11.00	<u> </u>	25.5	. 6.90	6.70
3		11.00		35.5	6.89	6.70
4		<u> </u>				
5				-		
6						
7						
8						
9						6.30
10	· /					0.00
11	15,987					
12						
13		- · · · · ·				
14						
15						
16		9.00		11.85	2.53	7.30
17	24,789	<u></u>				
18	24,581					
19	18,925					
20	14,741				**	
21	12,036					
22	10,658					
23	19,098					6.70
24	21,337					
25						
26	11,305					
27	10,952					
28						
29						
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

FACILLITY DISCHARGE MONITORING RECORD

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

		O&G	O&G		PHENOLS	
Permit Red Unit of Mea	="	VVVVVV	VVVVVV	VVVVV	VVVVVV	WWW.
DATE	FLOW	mg/1	Ibs.			SU
DAIL 1		1119/1	IDS.	mg/1	lbs.	50
2						
3						
4						
5		8.00		2.35	0.17	7.00
6	<u> </u>				5.17	7.00
7						
8						
9						
10	21,065					
11	22,456			· · · · · · · · · · · · · · · · · · ·		
12	22,100					7.30
13	24,156					
14	20,369					
15						
16	14,788					
17	20,118	-				
18					_	
19		9.00		18.65	2.87	7.30
20						
21	18,559					
22			4			
23						
24						
25						
26						7.50
27						
28						
29	14,227					
30						
31	26,958	0.50		10.50	4.50	7.00
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

FACILITY DISCHARGE MONITORING RECORD

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

		O&G		PHENOLS		рН
	Permit Requirement Unit of Measurement		VVVVVV	VVVVV	XXXXXXX	VVVVVV
DATE	FLOW	mg/1	Ibs.	mg/1	Ibs.	SU
DATE 1	33,520	1119/1	IDS.	ilig/ i	ibs.	30
2	21,560					<u> </u>
3	17,455				<u> </u>	
4	14,988					
5	26,987					
6	24,899			F "=, " "		
7	25,566	9.00	1	6.50	1.38	7.20
8	15,998					
9	10,225				1	
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					- 00
28	12,458					7.20
29	8,556					
30	4,880					
31	40.045	0.00		F 00	4.00	7.05
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

FACIILITY DISCHARGE MONITORING RECORD

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

Daniel Dan		O&G		PHEN	рН	
Permit Req Unit of Mea			VVVVVV		VVVVVV	VVVVVV
DATE	FLOW	mg/1	Ibs.	mg/1	Ibs.	SU
1	}	1119/1	ius.	ilig/i	IDS.	30
2						
3			<u> </u>			7.11
4	·					7.11
5			-			
6						
7						
8	· · · · · · · · · · · · · · · · · · ·					`
9						
10		9.00		26.30	4.39	7.40
11	23,396					
12	24,859					
13	15,698					
14	11,478					
15	25,841					
16	L '					
17	,					7.40
18	,					
19						
20	16,334					
21	9,877					
22	25,787	E				
23	25,454					
24	20,141	11.00		38.65	6.46	6.70
25						
26						
27	16,005					
28						
29	23,852					
30						
31	24,577	10.00		20.40	E 40	6.40
Avg.	21,161	10.00 11.00		32.48	5.43	7.00
Max. Min.	27,445	9.00		38.65	6.46	7.40
IVIIII.	9,877	9.00		26.30	4.39	6.40

FACILITY DISCHARGE MONITORING RECORD

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

		O&G		PHENOLS		рН
Permit Requ						
Unit of Mea			XXXXXXX		XXXXXXX	
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	1,120					
2	55,890					
3	62,858		P.			
4	57,441			S		
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

FACILITY DISCHARGE MONITORING RECORD

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

		O&G		PHEN	рН	
Permit Requi				1000000	2000000	2000000
Unit of Meas			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		ļ			
3	24,569		<u> </u>			
4	28,995					V. 11
5	24,667					
6	28,511					
7	20,396	ļ				7.40
8	27,456					7.40
9	24,581					
10	20,358	_				
11	29,685					· -
12	33,115			-		
13	30,225			_		
14	28,520	40.00		4.00	1.01	7.10
15	24,561	10.00		4.96	1.01	7.10
16	24,655					
17	24,158					
18	22,653	ļ <u>.</u>				
19	27,895					
20	26,778				-	U
21	25,778					
22	24,101					7.40
23	29,562				ļ	7.40
24	24,115					
25	27,444					
26	20,778					
27	29,561					
28	24,771					
29	26,591	10.00		75.00	16.01	6.20
30	25,885	12.00	<u> </u>	75.90	16.31	0.20
31	35,661	10.00		20.05	7 00	7 10
Avg.	26,266	10.33		38.25	7.89 16.31	7.12 7.50
Max.	35,661	12.00		75.90		
Min.	20,358	9.00		4.96	1.01	6.20





FACILLITY DISCHARGE MONITORING RECORD

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

Permit Requir	rement	O&G		PHEN	OLS	рН
Jnit of Measu		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					17 19 1
4	28,995		4			
5	24,667					
6	28,511			8	n — II	
7	20,396			90	A SA	
8	27,456					7.40
9	24,581				<u> </u>	
10	20,358					
11	29,685					
12	33,115				V	
13	30,225	0 8			20	
14	28,520				11.	
15	24,561	10.00		4.96	1.01	7.10
16	24,655					
17	24,158					
18	22,653					
19	27,895					34.75
20	26,778					
21	25,778				_ = =	
22	24,101	Ξ-				
23	29,562	74				7.40
24	24,115					
25	27,444					
26	20,778					
27	29,561	=			1	
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

TO:

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

FROM:

STEVE LADNER

Company:	KMCCLLCFPD	Date:	3/9/00
Fax No.		Pages, incl. Co	2
Comments			
		-	
Steve,			
Please find the	e results of samples ta	ken for waste water	permit.
347			
			A STATE OF THE STA

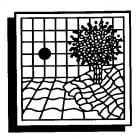
Gwen Dauphin Administrativo Clerk

CHUCK SWANN

AMAINH TESTS PERFORMED ARE IN ACCORDANCE WITH ERA METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTE.

Approved:

	-												151J	Lab 10.#	
													Effluent	Sample Date Description Received	Mazch 7, 2000
													2/09/00	Date Aeceived	00
Manganese	Magnes Tum	IROM	NITRITE-N	NITANTE-N	Sulfide	Sulvite	Sulfath	TOP	, IKH	Afgionia-K	SUSPENDED SOLIDS	COD	NOD.	Parameter	EDVID 603 G Stark 1 1 USBER
3.36	B.61	15.58	<0.02	0.9	0.25	3,5	4200	0.41	18.0	20.0	57	530	25	7	EDVIRO-LABS, INC 603 Gillebpie Stre P. O. Box 1096 Starkville, MS 197 1-66Z-3Z3-7744 1-66Z-3Z4-1745 USBPA Labcode: MG0
mg/1	wg/1	ոց/1	ng/1	mg/1	m g/ 1	mg/1	mg/I	m g /1	1/En	mg/1	ng/l	7. Par	ng/ì	Sample Regult	EDVIRO-LAGS, INC 603 Gillespie Street P. O. Box 1096 Starkwille, MS 19760-1096 1-662-123-7764 1-662-124-1745 & FAX USBPA Labcode: MS00023
											79		198	Result of Standard	
											mg/1		mg/1	t of	7 0 :
											76 - 82 mg/l		163- 237 mg/l	Acceptable Namge of Standard	Kerr McGee Chemical Forest Products Division Attn: Ron Muxphey 2300 14th Avenue North Columbus, MS 39701
243.1	142.1	236.1	354.1	352.1	376.1	277.1	375.4	365.3	351.4	150.3	160.3	8000	405.1	Method Used	2



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

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							_	2.6	-	_	-
CLIENT CONTACT PHONE NUMBER 662-328-7551	PROJECT NAME SPECIAL EFFLUENT	ANALYTICAL TESTS REQUESTED		REMARKS							
SAMPLING FIRM DE	P.O. or PROPOSAL NUMBER	ANALY	AND BUT	Contract of the second	×	×	×				
CORD	A, Inc.			MATRIX CONTAINERS	deste 1	Thorse /	State A				
CHAIN OF CUSTODY RECORD	SOUTHWEST LABORATORY OF OKLAHOMA, INC. 1700 W. Aldany • Broken Arrow, Oklahoma 74012.1421 Office: 918-251-2858 • Fax 918-251-2599			LOCATION	Effernt Wear	EMMITTHEN !	Ellunt Wier				
0F (LABOR Albany • Bre			COMP. GRAB		×	×				
NIA	UTHWES 1700 W.		Mann	TIME CO	/ A 0	64	49				
さ [[]	<u>\$</u>	(a)		DATE	3/9/20	00/	9/60				
		SAMPLER (\$ignatuge)	hal	SAMPLE NO.	,0	4	3	(2)			
		٣,			-	_				-	_

J. W. E.	REMARKS:	TIME RECEIVED BY: (Signature)	L	DATE
P.10-60 8:45 (Signature)	RELINQUISHED BY: (Signature)	TIME RECEIVED BY: (Signature)		DATE
			1 Sham 29/00 10 AM	14/2
DATE RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	TIME RECEIVED BY: (Signature)		DATE

[SR012-1192-03]





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): PON-WILLIS	REC'D DATE	02/10/00
RECEIVED BY (SIGNATURE):	TIME REC'D	08:45
RECEIVED BY (SIGNATURE)	-	

PROJECT: EFFLUENT WEIR		Sample	Assigned		pН	ACID/	REMARKS: CONDITION
EPISODE: 42030	Client Sample #	Fraction	LAB#	Cooler I.D.	Check	BASE LOT#	OF SAMPLE
SAMPLE DELIVERY GROUP:42030		@	40000 04	00/40/00 4	Y		SHIPMENT, ETC
Remarks 1. CUSTODY SEAL(S): Present/Absen Intact/ Broken	EFFLUENT WEIR	I,M, B	42030.01	02/10/00-1	Y		2.3 C
2. CUSTODY SEALS NOS.: N/A		2 10		=		*	
		Ÿ					
3. CHAIN-OF CUSTODY. <u>Present/</u> Absen	t	ļ					
Sealed In Plastic? Yes/ No Taped To Lid? Yes/ No		-			5		
Properly Filled Out (Ink, Signed, ETC.)? Yes/ No							
4. AIRBILL <u>AirBII/</u> Sticker		ŧi .					
Present/Absen 5. AIRBILL NO: 791043631366	t					745	
6. COOLER CONDITIONS							84
Enough Ice? Yes/ N	lo						
Type of Ice? Wet	_	 					
Type of Packing? Bubble Wrap	_						
7. SAMPLE TAGS Present/Absen	<u>t</u>				+ +		
8. SAMPLE CONDITION: <u>Intact/</u> Broken*	1						
Bottles Sealed In Leaking Separate Plastic Bags?							
Correct Containers Used	lo		0				
For Tests Indicated? Yes/N	1						
Correct Preservative? Yes/ N Sufficient Sample? Yes/ N							
Labels Complete (I.D., Date, Time, Signature, Preservative? Yes/N				<u> </u>	+		-
VOA Samples Without Bubbles? Yes/N							
9. Does Information on Custody					ļĪ		
Records,Labels,Tags Agree? <u>Yes/</u> N	0*			-		K)	
10. RAD SCREEN WITH GIEGER							+
COUNTER? Yes/	10				+		+

^{*} 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, l=Inorganics, C=Cyanide, M=Metals, R=Radiochemistry

[~] Note samples with bubbles under remarks section.

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

GENERAL CHEMISTRY
INORGANICS QUALITY CONTROL DATA SHEET
LCS/LCSD

42030 KMFP-COL

EPISODE CLIENT

JTSIDE QC LIMITS

MATRIX

WATER

	70-1-60-	0002202301		20	0.0		100	1.0		07 170	100	1.0	J.C	0.05	<0.05	mg/	IN230	Phenol
	20 0	00000000		3	0		3	•		3		•	,	,				
N	ANALY.		FLAG	LIMIT	RPO	FLAG	%REC.	FOUND	FLAG	LIMITS	% REC	FOUND	CONC.	LIMIT	FOUND			
	-							AMT.		%REC		AMT.	KNOWN	DET.	AMT.		CODE	
m	DATE	BATCHID		RPD			DUPLICATE	LCS D			CS	5		BLANK	METHOD BLANK	STINU	TEST	PARAMETER

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 SW846-8279C for a short list of compounds.

SWLO uses a 2uL injection for method SW846-8270C 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.

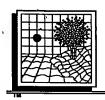
Matrix Spikes: EFFLUENT WEIRMS/MSD had 10 out of 22 spike compounds outside of QC limits ranging from 87% to 510%.

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: EFFLUENTWEIRMS and EFFLUENTWEIRMSD.

Organic Program Manager

February 17, 2000



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

02/29/2000 Date: Laboratory of Oklahoma, Inc.

Data Summary Report By Sample Point

Page:

Project: EFFLUENT WEIR

KERR MCGEE CHEMICAL CORP.

Client:

Southwest

02/09/2000 EFFLUENT WEIR 42030.01 SD1 230 E 2400 E 25 U 1100 E 38 290 E 280 E 1600 E 130 30 80 240 E 18 J 830 E 130 25 U 740 E 62 U 160 25 U 160 110 EFFLUENT WEIR 02/09/2000 DL 42030.01 MS1 2000 E 25 U 1000 E 36 270 E 250 E 1300 E 1100 E 120 30 76 220 E 18 J 810 E 700 E 25 U 600 E 62 U 130 25 U 130 02/09/2000 EFFLUENT WEIR 360 J 290 J 2000 U 2000 U 2000 U 280 J 930 J 5000 U 5000 U 2000 U 5000 U 4200 2000 U 1900 J 2000 U 1000 J 2000 U 2000 U 2000 U 1600 J 100 J 2000 U 1100 J 3000 02/09/2000 EFFLUENT WEIR 10 U 180 E 25 U 25 U 10 U 10 U 25 U 1200 E 610 E 390 E 10.3 5.0 U 7.0 U 490 E 42030.01 ug/1 ug/1 ug/1 Sample Point-> Units Sample Date-> LAB#-> 4 - CHLORO - 3 - METHYLPHENOL PENTACHLOROPHENOL DENO (1, 2, 3-CD) PYRENE 2,4,6-TRICHLOROPHENOL DIBENZ (A, H) ANTHRACENE BENZO (K) FLUORANTHENE BENZO (B) FLUORANTHENE Benzo (g, h, i) perylene BENZO (A) ANTHRACENE 2,4-DICHLOROPHENOL 2,4-DIMETHYLPHENOL Metals Parameters 2,4-DINITROPHENOL BENZO (A) PYRENE PHLOROPHENOL ACENAPHTHYLENE Matrix: WATER 4-NITROPHENOL 2-NITROPHENOL SEMIVOLATILES FLUORANTHENE PHENANTHRENE ACENAPHTHENE NAPHTHALENE ANTHRACENE CHRYSENE CHROMIUM ARSENIC COPPER PYRENE PHENOL

U: ANALYZED BUT NOT DETECTED

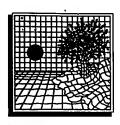
MISCELLANEOUS

PHENOLS

10.2

mg/1

See enclosure for additional qualifiers LAWI.ONNYXNNN



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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

REPORT

QAQC#

KERR MCGEE CHEMICAL CORP. FOREST PRODUCTS DIVISION 123 ROBERT S. KERR AVE.

OKLAHOMA CITY, OK 73102

Attn: NICK BOCK

PROJECT : EFFLUENT WEIR LAB# : 42030.01

SAMPLE #: EFFLUENT WEIR

LOCATION:

DILUTION: 1.00000 MATRIX : Water METHOD : EPA 625M

SEMIVOLATILES

RESULTS REPORTED IN ug/L

INSTR SEQ: REPORTED : 02/29/00

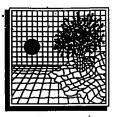
: 42030.01 : BB0212WB

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

PARAMETER	RESULTS	5	PARAMETER	RESULTS	3
2-CHLOROPHENOL	10	U	BENZO (A) ANTHRACENE	240	E
2,4-DICHLOROPHENOL	10	Ū	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	Ū	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

QAQC#

INSTR SEQ:

REPORTED: 02/29/00

SAMPLED : 02/09/00

SUBMITTED: 02/10/00

PREPARED : 02/12/00

ANALYZED : 02/16/00

: 42030.01

: BB0212WB

KERR MCGEE CHEMICAL CORP. FOREST PRODUCTS DIVISION 123 ROBERT S. KERR AVE.

OKLAHOMA CITY, OK 73102

Attn: NICK BOCK

PROJECT : EFFLUENT WEIR LAB# : 42030.01

SAMPLE #: EFFLUENT WEIR

LOCATION:

DILUTION: 200.000 MATRIX : Water

METHOD : EPA 625M

Dilution Run

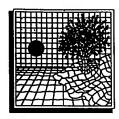
SEMIVOLATILES

RESULTS REPORTED IN ug/L

PARAMETER	RESULT	S	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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REPORT

: 42030.01

REPORTED : 02/29/00

SAMPLED : 02/09/00

SUBMITTED: 02/10/00

KERR MCGEE CHEMICAL CORP.

FOREST PRODUCTS DIVISION

123 ROBERT S. KERR AVE.

OKLAHOMA CITY, OK 73102

Attn: NICK BOCK

PROJECT : EFFLUENT WEIR

LAB# : 42030.01

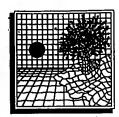
SAMPLE #: EFFLUENT WEIR

LOCATION:

MATRIX : Water

METALS PARAMETERS

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



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REPORT : 42030.01

REPORTED : 02/29/00

SAMPLED : 02/09/00

SUBMITTED: 02/10/00

KERR MCG-EE CHEMICAL CORP.

FOREST PRODUCTS DIVISION

123 ROBERT S. KERR AVE. OKLAHOMA CITY, OK 73102

Attn: NICK BOCK

PROJECT : EFFLUENT WEIR

LAB# : 42030.01

SAMPLE #: EFFLUENT WEIR

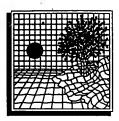
LOCATION:

MATRIX : Water

MISCELLANEOUS

DATE REFERENCE DATE PREPARED ANALYZED METHOD RESULTS UNITS PARAMETER 02/28/00 EPA 420.2

mg/l10.2 PHENOLS

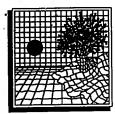


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Quality

Control

Section



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

KERR MCGEE CHEMICAL CORP.

REPORT : SBLK

FOREST PRODUCTS DIVISION

: BB0212WB QAQC#

123 ROBERT S. KERR AVE.

INSTR SEQ:

OKLAHOMA CITY, OK 73102

REPORTED: 02/29/00

Attn: NICK BOCK

LB1

PROJECT : EFFLUENT WEIR

PREPARED : 02/12/00

LB1

SAMPLE #: SBLK LOCATION: LAB QC

ANALYZED: 02/15/00

DILUTION: 1.00000

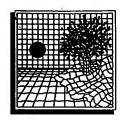
MATRIX : W METHOD : EPA 625M

SEMIVOLATILES

RESULTS REPORTED IN ug/L

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

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



ANALYZED

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

PROJECT : EFFLUENT WEIR

Attn: NICK BOCK

MATRIX : W

REPORTED : 02/29/00

PREPARED 02/12/00

LAB ID QC BATCH

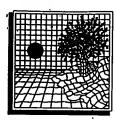
LCS BB0212WB 02/15/00 13:04 LCSD BB0212WB 02/15/00 13:41

SEMIVOLATILES

LABORATORY CONTROL SPIKE/SPIKE DUPLICATE RECOVERY

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

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



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

REPORTED : 02/29/00

Attn: NICK BOCK

PROJECT : EFFLUENT WEIR

MATRIX: W

PREPARED 02/12/00

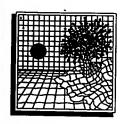
LAB ID		CLIENT ID	QC BATCH		ANALYZED
42030.01		EFFLUENT WEIF	R BB0212WB		02/15/00 14:30
42030.01	MS1	EFFLUENT WEIF	R BB0212WB		02/15/00 15:06
42030.01	SD1	EFFLUENT WEIF	R BB0212WB	-	02/15/00 15:42

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-MET		190	ND	130	71	160	86	19	42	23- 97
PENTACHLOROPHE	10L	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

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



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

INSTR SEO:

REPORT

QAQC#

: BB0212WB

: 42030.01

REPORTED: 02/29/00

Attn: NICK BOCK

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

MS1

SAMPLED : 02/09/00

SUBMITTED: 02/10/00 PREPARED : 02/12/00

LOCATION:

ANALYZED : 02/15/00

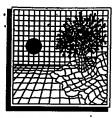
DILUTION: 1.00000 MATRIX : Water METHOD : EPA 625M

SEMIVOLATILES

RESULTS REPORTED IN ug/L

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

2-FLUOROBIPHENYL (43-116) 92% PHENOL-D5 (10-94) TERPHENYL-D14 (33-141) 97% 2,4,6-TRIBROMOPHENOL (10-123)	44% 54% 98%
--	-------------------



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

KERR MCGEE CHEMICAL CORP. REPORT : 42030.01 FOREST PRODUCTS DIVISION QAQC# : BB0212WB

123 ROBERT S. KERR AVE. INSTR SEQ: OKLAHOMA CITY, OK 73102 REPORTED: 02/29/00

Attn: NICK BOCK

PROJECT : EFFLUENT WEIR SAMPLED : 02/09/00 LAB# : 42030.01 SUBMITTED: 02/10/00 SAMPLE #: EFFLUENT WEIR SD1 PREPARED : 02/12/00 ANALYZED: 02/15/00

LOCATION:

DILUTION: 1.00000 MATRIX : Water METHOD : EPA 625M

SEMIVOLATILES

RESULTS REPORTED IN ug/L

PARAMETER	RESULT	S	PARAMETER	RESULT	S
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	Ē
PHENOL	2400	E	FLUORENE	750	E
2,4,6-TRICHLOROPHENOL	25	Ū	INDENO(1,2,3-CD)PYRENE	33	_
ACENAPHTHENE	1100	E	NAPHTHALENE	1600	Е
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%

:

INORGANICS QUALITY CONTROL DATA SHEET TRACE ICP LCS/LCSD

> WATER MATRIX

EPISODE CLIENT

42030 KMFP-COL

METHOD BLANK SAMPLE# METHC SPIKE# LCS DUPLICATE# LCSD

ug/l 00021711 UNITS BATCHID ⁻

ANALYST INITIALS R R R ANALYZED 20-Feb-2000 20-Feb-2000 20-Feb-2000 DATE FLAG LIMIT 88 20 RPD 0.0 FLAG LCS DUPLICATE %REC. 115 97 100 AMT. FOUND 92.0 194.0 249.0 FLAG 80 120 80 120 % REC LIMITS 114 | 80 | 120 %REC. 6 6 ပ္သ

91.4 193.0 249.0

CONC. 80.0 200.0 250.0

DET. 10.0 5.0 7.0

AMT. FOUND <10.0 <5.0 <7.0

AMT.

METHOD BLANK

CODE

PARAMETER

INSTR.

CP#1

NARRATIVE:

MT203 MT053 MT163

Copper

Chromium

Buic

* = OUTSIDE QC LIMITS

REV 4.2 CT 42030 /TRACELCW f 29-Feb-2000

IN122/07-11-97

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

GENERAL CHEMISTRY
INORGANICS QUALITY CONTROL DATA SHEET
LCS/LCSD

WATER

MATRIX

EPISODE CLIENT

42030 KMFP-COL

PARAMETER	7007	INITE	Contract	2174 10 0														
	3	_	2				တ			ICS DI	CS DUPLICATE		٥	000		ALC: UN		
	CODE		AMT.	DET.	KNOWN	AMT.		%REC		AMT.			2	2	<u> </u>		DAIE	ANA.
			FOUND	LIMIT	CONC.	FOUND	% REC	LIMITS	EI AG	CNICA	C 4 13			!				LYST
Phenol	INIDAO	//	3000	300	4.0	,			4		ANEC.			LIMII FLAG	AG		ANALYZED	ž
	114230	5	3.0	20.0	٠.). - 	3	80 120		-0.	9	_	00	U	COOC	282204	20 50 500	()
													' 		7000	202001	20-LED-2000	_ ၅

RRATIVE: OUTSIDE QC LIMITS

42030 /GLCSW REV 4.2 29-Feb-2000 CT

PHONE NUMBER 662-551

REMARKS

[SR012.1192.03]

RECEIVED BY: (Signature)





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

LAB NAME: SOUTHWEST	LABORATORY OF O	KLAHOMA					PAGEOF
RECEIVED BY (PRINT NAME): PONYVII	LIS M		<u></u>		······	REC'D [DATE 02/10/00
RECEIVED BY (SIGNATURE):		,				TIME RE	EC'D 08:45
LOGGED IN BY (SIGNATURE):	Hoology					LOG-IN	DATE 2000-02-11 15:5
PROJECT: EFFLUENT WEIR						ACID/	REMARKS:
EPISODE: 42030	Client Sample #	Sample Fraction	Assigned LAB#	Cooler I.D.	pH Check	BASE	CONDITION OF SAMPLE
SAMPLE DELIVERY GROUP:42030		@				LOT#	SHIPMENT, ETC.
Remarks 1. CUSTODY SEAL(S): Present/Abser	EFFLUENT WEIR	I,M,B	42030.01	02/10/00-1	Y		2.3 C
2. CUSTODY SEALS NOS.: N/A		k i					
3. CHAIN-OF CUSTODY. Present/Abser Sealed In Plastic? Yes/ No Taped To Lid? Yes/ No Properly Filled Out (Ink, Signed, ETC.)? Yes/ No	nt	3					
4. AIRBILL <u>AirBII/</u> Sticker							
5. AIRBILL NO: 791043631366	nt						
6. COOLER CONDITIONS Enough Ice? Yes/ N Type of Ice? Wet Type of Packing? Bubble Wrap	No						
7. SAMPLE TAGS Present/Abser							
8. SAMPLE CONDITION: Intact/ Broken Bottles Sealed In Leaking Separate Plastic Bags?	7						
Correct Containers Used For Tests Indicated? Yes/ N	10						
Correct Preservative? Yes/ N Sufficient Sample? Yes/ N							
Labels Complete (I.D., Date, Time, Signature, Preservative? Yes/ N	lo			·			
VOA Samples Without Bubbles? Yes/N	0~						
Does Information on Custody Records,Labels,Tags Agree? Yes/No.	0*					ş)	
10. RAD SCREEN WITH GIEGER COUNTER? Yes/ N	40						

Yes/ No

11. P.O. Called?

^{*} 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 SW846-8279C for a short list of compounds.

SWLO uses a 2uL injection for method SW846-8270C 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

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

- 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

KERR MCGEE CHEMICAL CORP.

Client:

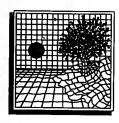
Project: EFFLUENT WEIR

02/29/2000

Date: Page:

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-CHT-OROBHENOT-	*/				_		
2.4-DICHLOROPHENOI.	ਧ/bn 1/∞∷	70 0	2000 U	100	130		
2.4-DIMETHYLPHENOL	1/60 1/20	0 0 0 0	2000 U	25 U	25 U		
2.4-DINITEOPHENOT.	1/6n	7 08T	930 J	至 009	740 E		
4-NTTROPHENOT.	7/6n	25 0	D 0005	62 U	62 U		
12-NTTPODEFINOT	т/fin	75 0	D 0005	130	160	-	
4 - CHTORO-3 - METHYL BURNOT	T/Sn	10 U	2000 U	25 U	25 U		
* - CILCONO - 3 - PLE I IL IL PRENOLI	т/бn	10 th	Z000 U	130	160		
PERTACRACIONOL	T/Sn	25 U	2000 T	200	230 E		
Frience	T/6n	1500 E	4200	2000 臣	2400 E		
z, 4, b = TRICHLOROPHENOL	ng/L	10 U	2000 U	25 U	25 17		
ACENAPHTHENE	ng/I	至 009	1900 J	1000 E	3100 1	_	
ACENAPHTHYLENE	1/6n	35	2000 U	36	3 80		
ANTHRACENE	ng/I	240 E	360 J	270 E	5 6		
BENZO (A) ANTHRACENE	ng/L	240 E	290 J	250 1	4 000		
BENZO (A) PYRENE	ng/L	95 3	2000 ti	1 00	4 00 5	_	
BENZO (B) FLUORANTHENE	I/bn	110 E	I. 001	1 1 1	170		
BENZO (G, H, I) PERYLENE	I/Bn	26	2000 11	30	051		_
BENZO (K) FLUORANTHENE	T/bn	80 8	11 0000	9 6	200		_
CHRYSENE	I/bn	210 E		7.6	08		_
DIBENZ (A, H) ANTHRACENE	1/5n	1 v	0 0000	270 E	240 E	_	
FLUORANTHENE	1/bn	4 4 E	0 0007	7 2 3	18 J	_	
FLUORENE	1/201	2000	0 000	A OTA	830 国		
INDENO(1,2,3-CD) PYRENE	1/5n	4 00 00 00 00 00 00 00 00 00 00 00 00 00	0000	700 臣	750 ₺		
NAPHTHALENE	7 /Sx	00 17	D 0007	33	33		
DUENAMINDENE	т/fin	1200 E	11000	1300 E	1600 E		
	л/bn	610 E	3000	1100 E	1100 E		
	7/gn	390 E	1000 1	770 E	790 E		
 Metals Parameters 						• <u>-</u>	
ARSENTO	5	,				-	_
CHROMIUM	T/Sn L/Sn	10.3		ı	•	Ш	
COPPER	1/85) i	•		,	_	-
	ng/1	7.0 U	•	•	•		-
MISCELLANEOUS							
PHENOLS	mg/1	10.2					
		1					

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



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

PROJECT : EFFLUENT WEIR

LAB# : 42030.01

SAMPLE #: EFFLUENT WEIR

LOCATION:

DILUTION: 1.00000 MATRIX : Water METHOD : EPA 625M

SEMIVOLATILES

NITROBENZENE-D5

RESULTS REPORTED IN ug/L

REPORT : 42030.01 QAQC# : BB0212WB

INSTR SEQ:

REPORTED : 02/29/00

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

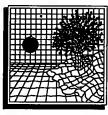
PREPARED : 02/12/00 ANALYZED : 02/15/00

PARAMETER	RESULT	S	PARAMETER	RESULT	S
2-CHLOROPHENOL	10	U	BENZO (A) ANTHRACENE	240	 E
2,4-DICHLOROPHENOL	10	U	BENZO (A) PYRENE	95	Ē
2,4-DIMETHYLPHENOL	180	E	BENZO (B) FLUORANTHENE	110	Ē
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	Ū	DIBENZ (A, H) ANTHRACENE	15	_
PENTACHLOROPHENOL	25	Ū	FLUORANTHENE	480	E
PHENOL	1500	E	FLUORENE	490	Ē
2,4,6-TRICHLOROPHENOL	10	U	INDENO(1,2,3-CD)PYRENE	28	_
ACENAPHTHENE	600	E	NAPHTHALENE	1200	E
ACENAPHTHYLENE	35		PHENANTHRENE	610	Ē
ANTHRACENE	240	E	PYRENE	390	F.

QA/QC	SURROGATE	RECOVERIES	
(35-114)	111%	2-FLUOROPHENOL	(21-100)
(42_116)	0.68	DUENOT DE	(10 04)

54%

2-FLUOROBIPHENYL (43-116)PHENOL-D5 53% 86% (10 - 94)TERPHENYL-D14 (33-141)100% 2,4,6-TRIBROMOPHENOL (10-123)115%



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

KERR MCGEE CHEMICAL CORP. REPORT : 42030.01 FOREST PRODUCTS DIVISION QAQC# : BB0212WB

123 ROBERT S. KERR AVE. INSTR SEQ:

OKLAHOMA CITY, OK 73102 REPORTED: 02/29/00

Attn: NICK BOCK

 PROJECT : EFFLUENT WEIR
 SAMPLED : 02/09/00

 LAB# : 42030.01
 SUBMITTED: 02/10/00

 SAMPLE #: EFFLUENT WEIR
 PREPARED : 02/12/00

LOCATION: ANALYZED: 02/16/00

DILUTION: 200.000
MATRIX : Water

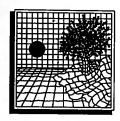
METHOD : EPA 625M Dilution Run

SEMIVOLATILES

RESULTS REPORTED IN ug/L

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

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)	O% *



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REPORT : 42030.01

REPORTED : 02/29/00

SAMPLED : 02/09/00

SUBMITTED: 02/10/00

KERR MCGEE CHEMICAL CORP. FOREST PRODUCTS DIVISION

123 ROBERT S. KERR AVE.

OKLAHOMA CITY, OK 73102

Attn: NICK BOCK

PROJECT : EFFLUENT WEIR

LAB# : 42030.01

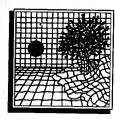
SAMPLE #: EFFLUENT WEIR

LOCATION:

MATRIX : Water

METALS PARAMETERS

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



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

REPORT : 42030.01

REPORTED : 02/29/00

SAMPLED : 02/09/00

SUBMITTED: 02/10/00

KERR MCG-EE CHEMICAL CORP. FOREST PRODUCTS DIVISION

123 ROBERT S. KERR AVE. OKLAHOMA CITY, OK 73102

Attn: NICK BOCK

PROJECT : EFFLUENT WEIR

LAB# : 42030.01

SAMPLE #: EFFLUENT WEIR

LOCATION:

MATRIX : Water

MISCELLANEOUS

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

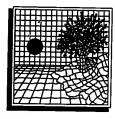


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Quality

Control

Section



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KERR MCGEE CHEMICAL CORP. FOREST PRODUCTS DIVISION

123 ROBERT S. KERR AVE. OKLAHOMA CITY, OK 73102

Attn: NICK BOCK

PROJECT : EFFLUENT WEIR

SAMPLE #: SBLK

LOCATION: LAB QC

DILUTION: 1.00000

MATRIX : W

METHOD : EPA 625M

SEMIVOLATILES

RESULTS REPORTED IN ug/L

REPORT : SBLK

QAQC# : BB0212WB

INSTR SEQ:

REPORTED : 02/29/00

LB1

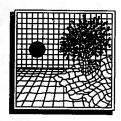
PREPARED: 02/12/00

ANALYZED : 02/15/00

PARAMETER	RESULTS		PARAMETER	RESULTS	
2-CHLOROPHENOL	10		DENIZO / A \ ANIMUDA CINID		
2,4-DICHLOROPHENOL	- ·	-	BENZO (A) ANTHRACENE	10	Ü
	10	U	BENZO (A) PYRENE	10	Ū
2,4-DIMETHYLPHENOL	10	Ū	BENZO (B) FLUORANTHENE	10	11
2,4-DINITROPHENOL	25	Ū	BENZO(G, H, I) PERYLENE	10	11
4-NITROPHENOL	25	U	BENZO(K) FLUORANTHENE	10	11
2-NITROPHENOL	10	U	CHRYSENE	10	IJ
4-CHLORO-3-METHYLPHENOL	10	Ū	DIBENZ (A, H) ANTHRACENE		U
PENTACHLOROPHENOL	25	Ü	FLUORANTHENE	10	U
PHENOL		-		10	U
	10	U	FLUORENE	10	U
2,4,6-TRICHLOROPHENOL	10	U	INDENO(1,2,3-CD)PYRENE	10	11
ACENAPHTHENE	10	U	NAPHTHALENE	10	11
ACENAPHTHYLENE	10	U	PHENANTHRENE	10	77
ANTHRACENE	10	Ū	PYRENE	10	U 11

LB1

	QA/QC S	URROGATE	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-TRIBROMOPHENOI	(10)4)	608



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

PROJECT : EFFLUENT WEIR

REPORTED : 02/29/00

MATRIX: W

PREPARED 02/12/00

LAB ID LCS

SEMIVOLATILES

LCSD

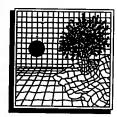
QC BATCH BB0212WB BB0212WB ANALYZED

02/15/00 13:04 02/15/00 13:41

LABORATORY CONTROL SPIKE/SPIKE DUPLICATE RECOVERY

_		SPIKED	SPIKE	SPIKE	DUP	DUP		MAX	LIMITS
Parameter	(ug/L)	AMOUNT	CONC.	%Rec	CONC.	%Rec	RPD	RPD	%Rec.
PHENOL		75	56	75	61	81	8	24	10-102
2-CHLOROPHENOL		75	59	79	64	85	8	23	27- 94
1,4-DICHLOROBEN	ZENE	50	39	78	43	86*	10	37	30- 81
N-NITROSO-DI-N-	PROPYLAMIN	1 50	36	72	46	92	24	35	28- 95
1,2,4-TRICHLORO	BENZENE	50	42	84	45	90*	7	31	32- 86
4-CHLORO-3-METH	YLPHENOL	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-DINITROTOLU		50	36	72	42	84	15	32	39- 94
PENTACHLOROPHEN	OL	75	64	85	71	95	10	65	10-118
PYRENE		50	48	96	48	96	< 1	23	40-112

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



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

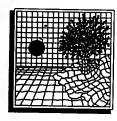
LAB ID CLIENT ID OC BATCH ANALYZED 42030.01 EFFLUENT WEIR BB0212WB 02/15/00 14:30 42030.01 MS1 EFFLUENT WEIR BB0212WB 02/15/00 15:06 42030.01 SD1 EFFLUENT WEIR BB0212WB 02/15/00 15:42

SEMIVOLATILES

MATRIX SPIKE/SPIKE DUPLICATE RECOVERY

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

Parameter NITROBENZENE-D5 2-FLUOROPHENOL 2-FLUOROBIPHENYL PHENOL-D5 TERPHENYL-D14 2.4.6-TRIBROMOPHENOL	SAMPLE %Rec	SPIKE %Rec	DUP %Rec	Limits
	111	90*	118*	35-114
	54	44	54	21-100
	86	92	93	43-116
	53	54	63	10- 94
	100	97	109	33-141
2,4,6-TRIBROMOPHENOL	115	98	108	10-123



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.

INSTR SEQ:

REPORT

QAQC#

: BB0212WB

: 42030.01

OKLAHOMA CITY, OK 73102

REPORTED : 02/29/00

Attn: NICK BOCK

LAB# : 42030.01

PROJECT : EFFLUENT WEIR MS1

SAMPLED : 02/09/00

SAMPLE #: EFFLUENT WEIR

MS1

SUBMITTED: 02/10/00

LOCATION:

PREPARED: 02/12/00

DILUTION: 1.00000

ANALYZED : 02/15/00

MATRIX : Water METHOD : EPA 625M

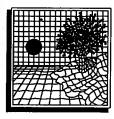
SEMIVOLATILES

RESULTS REPORTED IN ug/L

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

QA/QC S	SURROGATE	RECOVERIES
---------	-----------	------------

NITED ODELICE					
NITROBENZENE-D5	(35-114)	90%	2-FLUOROPHENOL	(21-100)	448
2-FLUOROBIPHENYL	(42 116)	000		(21 100)	440
Z LPOOUODILUEMIP	(43-116)	92%	PHENOL-D5	(10- 94)	54%
TERPHENYL-D14	122 4441	0.70		(10)4)	246
TEVEUDNIT-DI4	(33-141)	97%	2,4,6-TRIBROMOPHENOL	(10-123)	98%
	•			110-1231	70.5



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

KERR MCGEE CHEMICAL CORP. REPORT : 42030.01 FOREST PRODUCTS DIVISION : BB0212WB QAQC#

123 ROBERT S. KERR AVE. INSTR SEQ:

OKLAHOMA CITY, OK 73102 REPORTED : 02/29/00

Attn: NICK BOCK

PROJECT : EFFLUENT WEIR SAMPLED : 02/09/00 : 42030.01 SD1 SUBMITTED: 02/10/00 SAMPLE #: EFFLUENT WEIR PREPARED: 02/12/00 SD1 ANALYZED : 02/15/00

LOCATION:

DILUTION: 1.00000 MATRIX : Water METHOD : EPA 625M

SEMIVOLATILES

RESULTS REPORTED IN ug/L

PARAMETER RE		S	PARAMETER	RESULTS	
2-CHLOROPHENOL	130		BENZO (A) ANTHRACENE	280	 Е
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

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%

TRACE ICP INORGANICS QUALITY CONTROL DATA SHEET **TCS/TCSD**

> WATER MATRIX

EPISODE CLIENT

SAMPLE# METHOD BLANK SPIKE# LCS DUPLICATE# LCSD

42030 KMFP-COL

UNITS ug/l BATCHID 00021711

	INSTR.		ICP#1	ICP#1	ICP#1
ANALYST		INITIALS	SR	SR	SR
DATE		ANALYZED	20-Feb-2000	20-Feb-2000	20-Feb-2000
		FLAG			
RPD		LIMIT FLAG	20	20	20
		RPD	0.7	0.5	0.0
TE		FLAG			
LCS DUPLICATE		%REC.	115	26	100
SÖT	AMT.	FOUND	92.0	194.0	249.0
		FLAG			
	ပ္ပ	TS.	114 80 120	120	80 120
	%REC.	LIMITS	8	8	
SOT		% REC	114	26	100
	AMT.	FOUND	91.4	193.0	249.0
	KNOWN	CONC.	0.08	200.0	250.0
BLANK	DET.	LIMIT	10.0	5.0	7.0
METHOD BLAN	AMT.	FOUND	<10.0	<5.0	<7.0

MT053 MT163 MT203

Arsenic Chromium

Copper

TEST

PARAMETER

NARRATIVE: * = OUTSIDE QC LIMITS

42030 /TRACELCW REV 4.2 29-Feb-2000 CT





FACILITY DISCHARGE MONITORING RECORD

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

Permit Requirement		O&G		PHENOLS		рН	
Unit of Measu		XXXXXXX XXXXXX		XXXXXX	XXXXXXX	<u> </u>	
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU	
1	18,556			mg/ t	103.	30	
2	21,557	8.00		39.85	7.13	7.50	
3	22,696			03.00	7.10	7.50	
4	25,865		54				
5	27,784		ş I				
6	24,115						
7	26,683						
8	19,998					···	
9	24,776					7.40	
10	26,520					7.40	
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	<i>K</i>	7			7.40	
24	11,587						
25	12,003						
26	10,998						
27	11,774						
28	12,741						
29	21,556						
30						- N- N-	
31	74						
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	

FACILITY DISCHARGE MONITORING RECORD

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

		O&G	···	PHENOLS		рН
Permit Requ	uirement					
Unit of Meas	surement	XXXXXXX	XXXXXX	XXXXXX	XXXXXX	
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	25,86 5					
5	27,784					
6	24,115					
7	26,683					
8	19,998					
9	24,776		=			7.40
10	26,520					1 11
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		i			
20	18,556					
21	14,115					
22	13,225					
23	10,998	2				7.40
24	11,587					
25	12,003					
26	10,998					
27	11,774					
28	12,741					<u></u>
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

FACILITY DISCHARGE MONITORING RECORD

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

		O&G		PHEN	рН	
Permit Requ						
Unit of Meas	surement	XXXXXXXX	XXXXXXX	XXXXXXX	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				н	
11	28,447					
12	26,887					7.20
13	31,220		,,		-	
14	21,254	-				
15	24,887					
16	26,991					
17	24,785		i:			-
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

FACILLITY DISCHARGE MONITORING RECORD

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

Permit Requ		O&G		PHENC	DLS	Hq	
Unit of Meas	urement	XXXXXXX	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				0.04	7.10	
. 7	30,551						
8	24,897						
9	31,257			· ·			
10	24,996						
11	28,447			-			
12	26,887					7.20	
13	31,220					1.20	
14	21,254						
15	24,887						
16	26,991						
17	24,785					-	
18	27,458						
19	28,556	9.00		30.20	7.16	7.40	
20	23,652			00.20	7.10	7.10	
21	28,997					 	
22	21,221						
23	20,339		-			· · · · · · · · · · · · · · · · · · ·	
24	24,014					-	
25	20,369						
26	20,047					7.10	
27	25,541					7.10	
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	7.13	
Min.	18,995	9.00		3.75	0.84	7.10	

FACILITY DISCHARGE MONITORING RECORD

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

		O&G		PHENOLS		рН	
Permit Requirement					<u></u>		
Unit of Mea					XXXXXXX		
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU	
1						6.20	
2	- 						
3	· · · · · · · · · · · · · · · · · · ·						
4							
5							
6							
7							
8		11.00		21.75	3.57	6.80	
9							
10	<u> </u>						
11							
12							
13	 						
14							
15						7.10	
16							
17							
18							
19							
20							
21	16,774	<u> </u>					
22		8.00		0.013	0.0026	6.90	
23							
24	14,441						
25							
26							
27							
28							
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	





FACILITY DISCHARGE MONITORING RECORD

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

(Page 1 of 1)

Permit Requ	uirement	O&G	-	PHENC	DLS	рΗ
Unit of Mea		XXXXXXX	XXXXXXX	XXXXXXX	XXXXXXXX	XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1				9	150.	
2		f		·····		
3		10.00		6.95	1.65	6.80
4						3.33
5	20,145			220		
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		4			
22	11,859					
23	17,854					
24	11,454	10.00		1.70	0.16	6.90
25	12,336	C				
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

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FACIILITY DISCHARGE MONITORING RECORD

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

Permit Requirement		O&G		PHENO	NOLS p	
Unit of Measu		XXXXXXXX XXXXXXXX		XXXXXXX X	(XXXXXXXX)	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



FACILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS

Month/Year - Sep-99

rmit Requ	irement	O&G		PHENC	DLS	рН
it of Meas	surement	XXXXXXXX	(XXXXXXX	XXXXXX	XXXXXXX	xxxxxxx
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	21,155					6.80
2						
3						
4	24,614			Я		
5	23,178					
6	22,988					
7	20,378	- 1				
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			-		0.00
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			0.00	0.00	0.00
24	20,100					
25	24,661					
26	26,188					
27	24,551					
28	21,477					
29	22,469					6.80
30	27,489					0.80
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

FACILITY DISCHARGE MONITORING RECORD

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

		O&G		PHENO	LS	рН	
Permit Requ							
Unit of Meas	surement	XXXXXXX XXXXXXXX XXXXXXX XXXXXXX XXXXXX					
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU	
1	20.115						
2	19,956			8			
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					2	
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	

FACILITY DISCHARGE MONITORING RECORD

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

		O&G		PHENOL	s	рН
ermit Requirer nit of Measur		XXXXXXXX X	XXXXXXX	X XXXXXXX X	XXXXXXX X	xxxxx
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	22,566			1		
2	24,516					
3	20,117					
4	23,625					
5	27,899					
6	19,845					
7	22,333					6.5
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	6.2
15	27,415					
16	20,364					
17	22,227					
18	20,009		-			
19	19,987					
20	27,410	=1				
21	22,012					6.3
22	20,366		···			
23	20,048					
24	29,007					
25	24,555				Η	
26	21,545		<u>-</u>			
27	23,315					
28	22,001	13.00		10.65	1.95	7.9
29	25,454					
30	23,661					-
31	22,118					
Avg.	22,880	11.00		8.65	1.65	6.7
Max.	29,007	13.00		10.65	1.95	7.9
Min.	19,845	9.00		6.65	1.36	6.20

FACILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS

Month/Year - Jul-99

		O&G		PHENC	LS	рН
Permit Requ Unit of Meas		VVVVVV	VVVVVVV	VVVVVV	VVVVVVV	VVVVVV
DATE	FLOW	mg/1	lbs.	mg/1	XXXXXXXX Ibs.	SU
1		riig/ i	105.	my/ i	ibs.	30
2		17.00		16.1	2.69	6.80
3		17.00		10.1	2.09	0.80
4						
5						
6						
7						
8						
9						6.20
10					,	
11	27,514					
12	19,995					
13						
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

FACIILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS

Month/Year - May-99

		O&G	<u>. </u>	PHENOL	.S	pН
Permit Requi	rement					
Unit of Meas	urement			XXXXXXX		
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	27,756					
2	22,455	ļ <u>.</u>	-		. <u>. </u>	
3	21,066			<u> </u>		
4	28,954					7.50
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	<u> </u>	20.70	3.56	6.90
13	27,568			ļ		
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				<u> </u>	
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

FACILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS

Month/Year - Apr-99

		O&G	·	PHENOL	.s	pН
ermit Require Init of Measur		XXXXXXXX X	XXXXXX	X XXXXXXX X	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					6.0
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	6.4
29	24,551					
30	20,125					
31						
Avg.	23,230	7.50		19.35	3.68	6.3
Max.	31,145	8.00		25.25	4.45	6.6
Min.	19,985	7.00		13.45	2.92	6.0

FACILITY DISCHARGE MONITORING RECORD

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

	84	O&G		PHENOL	.s	рН
Permit Requir	rement			<u> </u>		10000000
Unit of Meas	urement	XXXXXXXX		XXXXXXXX	<u>(XXXXXXX</u>	XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	27,862			<u> </u>		
2	25,112				4.44	0.40
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			1		6.00
10	24,889			<u> </u>		6.00
11	19,978					
12	26,545					
13	18,556			 		
14	22,331					
15	24,589					
16	20,337				4 40	0.00
17	25,490	7.00		6.90	1.46	6.20
18	24,168			 		
19	24,896			9		
20	20,045					
21	23,569					
22	16,895	2 0				
23	30,117					
24	25,455					6.30
25	20,004					
26	24,892					
27	23,964					ļ
28	20,145					<u> </u>
29						ļ
30						
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

FACILITY DISCHARGE MONITORING RECORD

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

		O&G	=	PHENOL	S	рН
ermit Requirer nit of Measure		XXXXXXX	XXXXXXXX	XXXXXXX X	XXXXXXX X	XXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	29,566					
2	25,789		-			
3	20,336					6.3
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	6.3
11	30,114					
12	27,445					
13	20,113					
14	22,561					
15	27,892					
16	19,566					
17	24,870					6.8
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	6.5
25	22,015					
26	24,560			1		
27	24,562					
28	22,078					
29						
30						
31						
Avg.	24,734	8.00		13.48	3.22	6.4
Max.	31,224	9.00		18.65	4.42	6.8
Min.	19,566	7.00		5.40	1.07	6.3

GENERAL INFORMATIO	ON: Facility Name	Kerr-McGee Cher	mical
County Code		NPDES Permit No.	90021
Discharge No.	001	Date Requested	d Feb 99
Sample Point Ident		Process Wastewater	
Paguastad Ry	Compliance Monitoring	Data To	Kirk Shelton
Type of Sample:	Grab(X) Composite (Flow) (Time) Other (
SAMPLE IDENTIFICA			-
	tion OVERCAST & C	Collecte	ed By Dewitt Spurger
Where Taken AFE	structure		
Type	Parameters	Preservative	<u>Date</u> <u>Time</u>
1. Grab	Cr, Cu, As	HNOS	2-22-99 1630
2. Grab	Oil & Grease	HzSog	7-22-99 1530
3. Grab	Phenol	Hz S04	2-22-99 1530
4. Grab	Pentachlorophenol	Cool	7-22-99 1530
5.			
FIELD:			
Analysis	Computer Code	Request Results	Analyst Date
рН	(000400)	(X)	DS 2-22-9
D.O.		()	
Temperature	(000010)	()	
Residual Chlorine		()	
Flow	(074060)	(X) .02468 mGp	DS 2-22-99
TRANSPORTATION OF		Mehigle () Other(X)	Pony Express
LABORATORY: Recei		al Date 2-3	24-99 Time 09w
Recorded By		Date Sent to State	Office
Recorded by	Computer		Date
Analysis	<u>Code</u> <u>Request</u>	Result	Analyst Measured
BOD5	(000310)	mg/1	*
COD	(000340)	mg/1	
TOC	(000680)	m a / 1	
Suspended Solids	(099000)	mg/1	
TKN	(000625)	mg/1	
Ammonia-N	(000610)	mg/1	Land the second second
Fecal Coliform(1)	(074055)	colonies/100 ml	*
Fecal Coliform(2)	(074055)	colonies/100 ml	+
	(000665)	mg/1	
Total Phosphorus	(000550)	54.0 mg/1	15 2-25-9
Oil and Grease(1)		mg/1	
Oil and Grease(2)	(000550)	mg/1	
Chlorides	(099016)	7.44 mg/1	KF 3-2-99
Phenol	(032730)	mg/1	7)/ 20/
Total Chromium	(001034)	mg/1	
Hex. Chromium	(001032)	mg/1	
Zinc	(001092)	mg/1	
Copper	(001042)	mg/1	
Lead	(017501)	mg/l	
Cyanide	(000722)	mg/ T	
8 0 10 10 1			
per mily pre-mail			
Remarks 5700			

BUREAU OF POLLUTION CONT 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:

NPDES Permit No.: 90021

Date Requested: 2-99

Data To: Kirk Shelton

Time: Other:

SAMPLE IDENTIFICATION: П.

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 ₂ SO ₄	2-22-99	1530
3.	Grab	Phenol	H ₂ SO ₄	2-22-99	1530
4.	Grab	Pentachlorophenol	Cool	2-22-99	1530
5.					
6.			 		

Ш. FIELD:

Analysis	Compute	r Re Code	-	Analyst	Date
рН	000400	X	7.11	DS	2-22-99
D.O.	000300				
Temperature	000010				
ResidualChlorine	050060				1
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

Recorded by: Tammy Sawyer

Date: 2/24/99

Time:0900

Date Sent to State Office: 4-15-99

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

WET CHEMISTRY PARAMETERS

Lab Bench No.: 0573

Analysis	Computer Code	Re	q Result	Analyst	Date Measured or Date Test Initiated
BOD	000310		mg/I		
COD	000340		mg/l		
TOC	000680		mg/l		
Suspended Solids	099000		mg/l		
TKN	000625		mg/l		II II
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		
					ш

INORGANICS REPOR

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

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

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)

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)

<u>Compound</u>	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		MAR	.KED:	Кел-Мадее Chemical		
ANALYSIS OF:		Water_				D: 2-24-99		T
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 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	Borres/Simples Journ	120	IND
Naphthalene	10	*6510	4,6-Dinitro-2-methylphenol	50	ND			
4-Chloroaniline	20	ND	N-nitrosodiphenylamine	20	ND		1	
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 identif	امما
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.

FACILITY DISCHARGE MONITORING RECORD

KMCC-FPD Facility - Columbus, MS

Month/Year - Jan-99

it Demoire		O&G		PHENO	LS	рН
ermit Require nit of Measui		XXXXXXX	XXXXXXX	XXXXXXX	xxxxxxx	XXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	23,566					
2	28,596					
3	25,784					
4	19,864					
5	30,112	Ü			(a)	
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	Ī.	•			
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					H 5
23	19,899					
24	16,789					
25	24,566					
26	25,695					0.
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



ental Protection Agency,

Washington, D.C., 20



Form oproved OMB No.2040-0003 Approval Expires 3m31-85

☐ Compliance

NPDES Compliance Inspection Report

					·,	
		Section A:	National Data System	n Coding		
Transaction Code	NPDES MSP090021	yr/mo/day 99/06/16	Inspection Type	Inspector S	Facility Type 2	Sched'd NA
Reserved	Facility Evaluation Rating	bi N	QA N		Reserved	
		Section 1	B: Facility Data			
Name and Location of	f Facility Inspected				Entry Time:	Permit Effective Date:
Kerr-McGee C	Chemical Corporati	on			8:30 a.m.	Oct. 11,1994
2300 14th Av				•	Exit Time/Date:	Permit Expiration Date:
Columbus Mis	sissippi 30703				6:00 p.m.	Oct. 10, 1999
Name(s) of On-Site F	Representative(s)		Title(s)			Phone No(s)
Mr. Ron Murp	hey		Plant Mana			601-328-7551
Mr. Chuck Sw	ann		Environmer	ntal Sup	ervisor	" <u></u>
Name, Address of Resp	ponsible Official		Title			
Mr. Ron Murp	hey		Plant Mana	ager		
Kerr-McGee C	Chemical Corporati	ion				
P.O. Box 906	5		Phone No.			Contacted
Columbus, M	MS 39703		601-328-75	551		YES NO
8)	Section C: Areas Evalua	ated During Inspect	ion (S-Satisfactory,	M-Marginal,	U-Unsatisfactory, N-Not Eva	luated)
S Permit S Operations 8 N Compliance S N Effluent/Rec	Maintenance Schedules ceiving Waters	<u>S</u> Record N Sludge	easurement s/Reports Disposal onitoring Progr	ram	N Pretreatmen N Laboratory S Facility Si N Other	
		Section D: Summary	of Findings/Comments			
during walk 2. The facil 3. Pretreath onsite for t pretreatment reporting la 4. Wastewate	hree vears as red	wastewater f the currer reviewed. F quired. The cility maint cal results eared suffic ring the pre	discharges and pretreatment facility main facility per tains calibrate from sampling tient.	re sent nt permi tains Di forms sa tion rec g events	to the City of C it. ischarge Monitor: ampling events as cords. The facil:	rges were noted Columbus POTW. ing Reports (DMRs) s specified in the ity has correctly
Names and Signature	s of Inspectors	[• •	ce/Telephone	Control	1/601-961-5171	Date
MA	Shetu	022233	0			10-27-99
1						
Signature of Review	er	Agency/Offi	ce			Date
Davia	/Lee	Office	of Pollution	Control	L	10/27/99
		Regul	atory Office Use Only	2		
Action Taken					Date	
Report trans	smitted to permit	tee.				☐ Noncompliance ☐ Compliance

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) NAME/TITLE PRINCIPAL EXECUTIVE OFFICER PI 50050 EFFLUENT 46000 PHENDLS EFFLUENT GROSS 00400 EFFLUENT THRU TREATMENT 001100 FELUENT ORDSS R. -IR METH) TOT, RIMEASUREMENT & GREASE (FREDI COLUMBUS PARAMETER Z TYPED OR PRINTED P MURPHEY GROSS GROSS CONDUIT O O ASST PITMOR PERMIT VALUEREQUIREMENT VALU VALUREQUIREMENT VALL PLANMEASUREMENT DH REQUIREMENT REQUIREMENT MEASUREMENT MEASUREMENT MEASUREMENT MEASUREMENT MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT SAMPLE SAMPLE PLANT SAMPLE SAMPLE SAMPLE PERMIT SAMPLE SAMPLE PERMIT PERMIT PERMIT PERMIT 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. 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, 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 MANAGER MO ACO **AVERAGE** 本本本本本本 本本本本本本 水水水水水 ******** 水水水水水 S QUANTITY OR LOADING 0.005 08. R XWW DIV MAXIMUM MO MAX 水水水水水水 水水水水水水 本本本本本本 水水水水水 水水水水 本本本本 MOD STINU LBS/D 本本本本 本本本本 03) 26) 6 MUNITALIM MINIMUM 本本本本本本 本本ななな本本 举本水水水水水 本本本本本本 本本本本本 水水水水水 Quality or Concentration SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT MO AVO **AVERAGE** MO AVG 6.68 大けてに対 *** ********** 水水水水水 本本本本本 mont NOTE: Read inetructions before completing this form. MAXIMUM 00 560 MAXIMUM MO MAX MO MAX 水水水水水水水 本本本本本 100 378-755/ 02 6/ TELEPHONE 本本本本 STINU 9 MG/L MG/L 本本本本 P φ NO. FREQUENCY 2 18/6 SISATVNV e TX TINE LNOW STOR TON T 1 1 1 TOF 8 DATE GRAB RVSO SAMPLE CONTA GRAB CONT DAY 18

FACILITY

LOWNDES COUNTY

MS 39701

FROM

YEAR MO

DAY

70

YEAR MO

DΑΥ

MONITORING PERIOD

DISCHARGE NUMBER 001

FINAL (SUBR NO)

PRETREAL 25 90ESS

Ç.

BOILER

*** NO DISCHARGE |

一 炸淬淬

LOCATION

ADDRESS

2300 14TH AVENUE N

COLUMBUS

S S

39701

PERMITTEE NAME/ADDRESS (Include Facility Name/Location (ID)(firmi)

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

MINOR

MSP0900011 PERMIT NUMBER

KERR-MOGEE (COLUMBUS)

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) CHARLES SUANN/ASST. PLT. MGR. NAME/TITLE PRINCIPAL EXECUTIVE OFFICER LOCATION FACILITY **ADDRESS** PERMITTEE NAME/ADDRESS (Include Facility Name Location of Different) EFFLUENT 39032 PENTACHLOROPIENOL EFFLUENT GROSS VALU 01119 EFFLUENT WITE TOTAL RECOVERABLE 01118 00978 ERABLE COPPER ARSENIC. FLUENT AL DMI UM 2300 14TH AVENUE COLUMBUS LUNDES COUNTY MERR-MOGEE (COLUMBUS) COLUMBUS RECOVERABLE **PARAMETER** R P MURPHEY TYPED OR PRINTED GROSS GROSS CROSS TOTAL 0 0 VAL VALUREQUIREMENT VALU RECOV REQUIREMENT REQUIREMENT MEASUREMENT MEASUREMENT MEASUREMENT MEASUREMENT REQUIREMENT REQUIREMENT MEASUREMENT MEASUREMENT REQUIREMENT REQUIREMENT MEASUREMENT SAMPLE SAMPLE SAMPLE SAMPLE PERMIT PERMIT SAMPLE SAMPLE PERMIT SAMPLE PLANT PERMIT PERMIT PERMIT 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. 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. MANAGER I U) 3 0.0011 ANNL AVE **AVERAGE** 39701 39701 **本本本本本本** 水水水水水水水 水水水水水水水 本本本本本 **** 不幸本本本 QUANTITY OR LOADING 0.004 0.00395 0.0043 ANINE MAX ANNL MAX ANNE MAX Φ Na MAXIMUM ANNL MAX FROM : W NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
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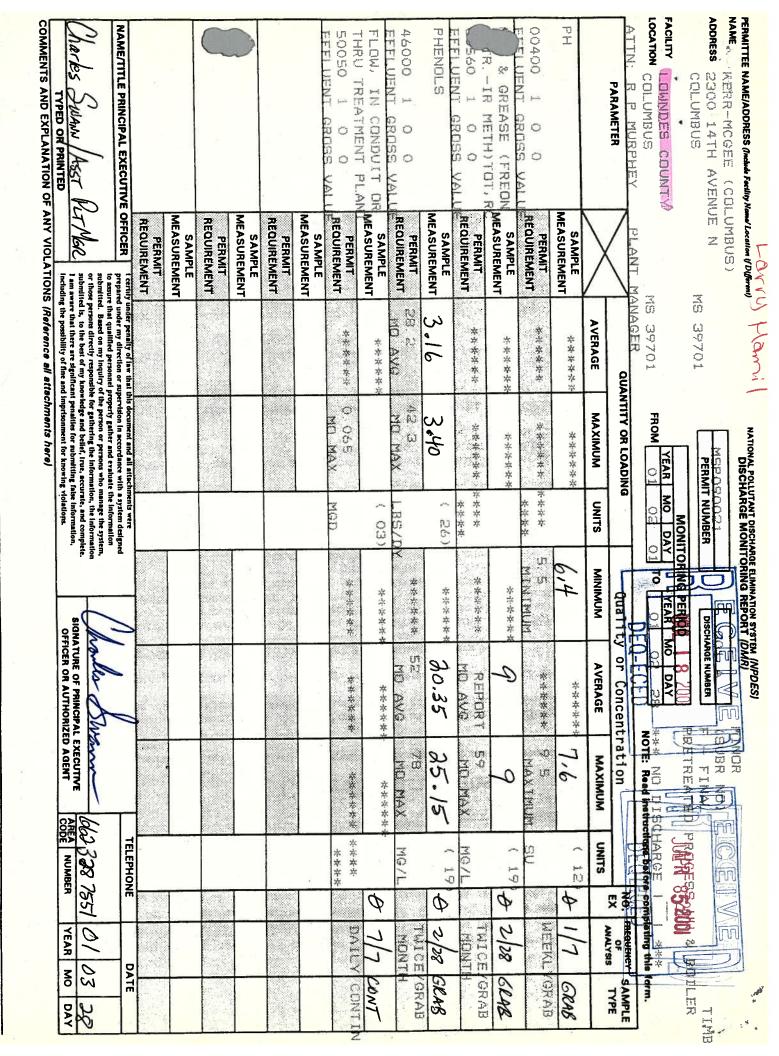
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LOCATION COLUMBUS

MS 39701

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MONITORING PERIOD

FACILITY LOWNDES COUNTY

ADDRESS 2300 14TH AVENUE N

COLUMBUS

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39701

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

MSP090021

PERMIT NUMBER

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PRETREATED PROCESS WW

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MINOR (SUBR NO)

Form Approved.
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Differen

KERR-MCGEE (COLUMBUS)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) LOCATION COLUMBUS FACILITY ADDRESS 밀 COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) ATTN: WATER, PRE-TREATMENT, CLM EFFLUENT GROSS VALUEREQUIREMENT 46000 00560 1 00400 EFFLUENT GROSS VALUEREQUIREMENT 50050 THRU TREATMENT PLAN MEASUREMENT TR. - IR METH) TOT, REMEASUREMENT EXFLUENT GROSS VALUEREQUIREMENT FLOW, IN CONDUIT OR HARLES DWANN/ASST. PLT. MGR NAME/TITLE PRINCIPAL EXECUTIVE OFFICER LUENT GROSS VALUEREQUIREMENT & GREASE (FREON 2300 14TH AVENUE N R P MURPHEY LOWNDES COUNTY COLUMBUS KERR-MCGEE (COLUMBUS) PARAMETER TYPED ON PRINTED 0 0 MEASUREMENT MEASUREMENT MEASUREMENT SAMPLE MEASUREMENT REQUIREMENT MEASUREMENT REQUIREMENT REQUIREMENT PLANT SAMPLE SAMPLE PERMIT SAMPLE PERMIT PERMIT PERMIT PERMIT SAMPLE SAMPLE SAMPLE PERMIT PERMIT 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 Certify under penalty of law that this document and all attachments were to assure that qualified personnel properly gather and evaluate the information prepared under my direction or supervision in accordance with a system designed submitted. Based on my inquiry of the person or persons who manage the system MANAGER nciuding the possibility of fine and imprisonment for knowing violations. am aware that there are significant penalties for submitting false information, 3 0 MS 39701 MO AVG 3970 AVERAGE **** **** ***** **** *** **** QUANTITY OR LOADING 0.065 460.0 42.3 FROM MO MAX MAXIMUM MO MAX **** **** NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

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

MSP090021

PERMIT NUMBER

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KERR-MCGEE (COLUMBUS)

ADDRESS

2300 14TH AVENUE N

COLUMBUS

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

LOCATION FACILITY 14TH VE AND ADDRESS P U JOX 906 PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) てついいろうしょ しょう K. F. MURPHEY NAME/TITLE PRINCIPAL EXECUTIVE OFFICER KERR-MOGRE (COLUMNUS) PARAMETER TYPED OR PRINTED VAL 111-12-1-11 SAMPLE MEASUREMENT MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT MEASUREMENT REQUIREMENT PERMIT REQUIREMENT MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT SAMPLE SAMPLE SAMPLE PERMIT SAMPLE PERMIT PERMIT PERMIT PERMIT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALTY EXAMINED AND AM FAMILAR 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. ACCUPATE 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.) NORTH (3 Card Only) QUANTITY OR LOADING (46-53) (54-61) 39701 SAY ON 37703 公司於於於於於 **AVERAGE** 於非於於於於 DISCHARGE MONITORING REPORT (DMR) (17-19) NO. Š FROM 6 并於於於於於於 MAXIMUM 3 ZAX XX (20-21) YEAR PERMIT NUMBER (22-23)おおおお ΜO 300 计计计 **经营营营** 於於 於於 SLING 000 MONITORING PERIOD (24-25) (4 Card Only) (38-45) 6 W PULLINE MINIMUM <u>5</u> **经外外条条条 计并并分析** 公於於於於於於 (26-27) YEAR DISCHARGE NUMBER SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT (28-29) (30-31) QUANTITY OR CONCENTRATION MO SAY CIN AVERAGE 於於於於於於於 ****** DĄ 6.40 *** NO DISC PRETREATED COURSE NO NOTE: Read Instr 357 MO MAX Č MAXIMUN MAXIMUM 经接收 经 ガルズ 50 62,328-7551 00 0 09 分分於 TELEPHONE 於於於於 NUMBER M before completing this form. C Form Approved.
OMB No. 2040-0004 Approval expires 05-31-98 (62-63) EX FREQUENCY 9 3000 B 2/31 YEAR DATE 8 GRAS GRAB SAMPLE 1207 (69-70)

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) LOCATION FACILITY LATH VE AND ADDRESS ~ NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Mur PHEY 0 PARAMETER TYPED OR PRINTED F1.07 SAMPLE MEASUREMENT SAMPLE MEASUREMENT MEASUREMENT SAMPLE MEASUREMENT MEASUREMENT MEASUREMENT REQUIREMENT MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT STREET PERMIT SAMPLE PERMIT SAMPLE PERMIT PERMIT SAMPLE PERMIT SAMPLE PERMIT PERMIT OERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HERRIK, 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 SIGNIFCANT 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.) NUSTH MS 39701 (3 Card Only) QUANTITY OR LOADING (46-53) (54-61) 10 100 45°/ 39703 AVERAGE AVG AC. TO MAK FROM MAXIMUM 200 MAX YEAR (20-21)PERMIT NUMBER 1915 素素素 (22-23)Š Ö 於於於於 弘養養 於於於於 SLIND MONITORING PERIOD DAY (24-25)(4 Card Only) (38-45) MINIMUM MINIMUM ᅙ ないのないない **兴兴等公公公** (26-27) YEAR SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT DISCHARGE NUMBER Q. MURDLEY MO (28-29) QUANTITY OR CONCENTRATION (46-53) (54-61) O MO AVO 於於於於於於於 **AVERAGE** DAY (30-31) 50 PRETREATE *** ZO ONGERR NOTE: Read Instructions before completing this form. MO MAX 0.0 18.65 MUMIXA MAXIMUM 告受於於於於於 門科米 663328-7551 60 108 TELEPHONE · 茶茶茶茶 **** NUMBER SLIND NO. 贝 FREQUENCY SAMPLE ANALYSIS (64-68) YEAR MO ð w DATE GRAB CRAB (69-70)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME RESS WESTERN (COLD IN NAME)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
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NAME ADDRESS P D BOX 906 PERMITTEE_NAME/ADDRESS (Include Facility Name/Location if Different) FACILITY 14TH VE AND ZOTH STREET LOCATION DE NA BUS ATTN PRE-TREATMENT COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 0400 THENUTE NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MURPHEY PARAMETER TYPED OR PRINTED MURPHEY VAL PLT.MGR. VALGO (CDLUMMUS) SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT MEASUREMENT REQUIREMENT PERMIT REQUIREMENT MEASUREMENT MEASUREMENT MEASUREMENT REQUIREMENT MEASUREMENT REQUIREMENT REQUIREMENT PERMIT SAMPLE PERMIT SAMPLE SAMPLE PERMIT SAMPLE SAMPLE PERMIT PERMIT PERMIT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION IS TRUE, ACCUPATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT ACCUPATE AND SUBMITTING FALSE INFORMATION, INCLUDING THE PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE PENALTIES FOR FINE AND IMPRISONMENT, SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include these up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.) MORIN (3 Card Only) QUANTITY OR LOADING (46-53) (54-61) C 8 7 39703 1016E 1.00 於於於於於於 於於於於於於於 AVERAGE 计 替 等 等 等 等 告於於於於於於 AVG Z 0 NO NAX FROM 0.034 MAXIMUM 告於於於於於於 .38 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
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OMB No. 2040-0004 Approval expires 05-31-98 ΩŠ P Φ FREQUENCY SAMPLE ANALYSIS (64-68) 2/30 HINDM 2/30 00 07 YEAR MO DATE GRAS GRAB (69-70)DAY

00006/000119-1202

ADDRESS P O BOX 906 PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) FACILITY 14TH VE AND 20TH STREET NORTH LOCATION: 3 LUMB US PRE-TREATMENI CLH ATTIME 46000 COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) R. P. MUREHEY THREE TE UEN PFLUEN NAME/TITLE PRINCIPAL EXECUTIVE OFFICER COLUMBUS PARAMETER P MURPHEY TYPED OF PRINTED PLT. MGR. (COLUMBUS) MEASUREMENT REQUIREMENT MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT MEASUREMENT PERMIT REQUIREMENT REQUIREMENT SAMPLE MEASUREMENT MEASUREMENT MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT SAMPLE SAMPLE PERMIT SAMPLE PERMIT SAMPLE PERMIT PERMIT SAMPLE PERMIT 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 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 tines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.) 3 (3 Card Only) QUANTITY OR LOADING (46-53) (54-61) NO. 39701 39703 AVERAGE 於於於於於於於 **转次於於於於於** AVG 於於於於於於於 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER EFFLUENT GRUSS VALUE ATTN: R P MURPHEY EFFLUENT GROSS 50050 16000 LOCATION DLUMBUS FACILITY 14TH VE AND 20TH STREET NORTH NAME PERMITTEE NAME/ADDRESS (Include Facility Name/Location (ID)(firent) LOW, IN CONDUIT OR EFFLUENT GROSS VALUE ADDRESS P U BOX 906 HRU TREATMENT HENOLS MMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here 560 0400 TR.-IK METH) TOT, RC FLUENT GRUSS & GREASE (FREON KERR MCGEE (COLUMBUS) COLUMBUS TYPED OR PRINTED PARAMETER VALUE PLANT MEASUREMENT VALUE REQUIREMENT MEASUREMENT MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT MEASUREMENT REQUIREMENT MEASUREMENT REQUIREMENT MEASUREMENT MEASUREMENT SAMPLE SAMPLE SAMPLE PERMIT SAMPLE PERMIT PERMIT SAMPLE SAMPLE PERMIT SAMPLE PERMIT PERMIT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HERBIS, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR DETAINING THE INFORMATION, I BELEVE 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. 3 1001 AND 31 THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 3 1001 AND 31 THE POSSIBILITY OF FINE AND IMPRISONMENT. MS 39701 S (3 Card Only) QUANTITY OR LOADING (46-53) MO AVG 各种各种特殊 39703 1 经存款 计存储 **经验公司基本** AVERAGE 会 体 会 春 会 会 **公司公司公司公司公司公司** 你於於於於於 .00 .075 0.031 * 8 8 MO MAX MO MAX 7.16 李令公安 李 李 李 李 李 李 存存的 存在存存存 MAXIMUM FROM CO OI *** *** NATIONAL POLLUTANT DISCHARGE ELMINATION SYSTEM (NPDES)
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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DATE

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PAGE

ADDRESS P 0 BOX 906 LOCATION COLUMBUS FACILITY 14TH VE AND PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 50050 EFFLUENT 46000 EEELUENT GROSS 00400 ATTN: EFFLUENT PHENOLS NAME/TITLE PRINCIPAL EXECUTIVE OFFICER 70560 -LOW, IN CONDUIT OR BRU TREATMENT FFLUENT ROWALD P. MURAMEY R. - IR METH) TOT , RC MEASUREMENT & GREASE (FREON KERR-MCGEE (COLUMBUS) COLUMBUS R P MURPHEY PARAMETER TYPED OR PRINTED GROSS GROSS GROSS VALUE REQUIREMENT PLANT MEASUREMENT VALUE REQUIREMENT VALUE REQUIREMENT VALUE REQUIREMENT 20TH STREET NORTH MEASUREMENT MEASUREMENT MEASUREMENT MEASUREMENT REQUIREMENT MEASUREMENT REQUIREMENT REQUIREMENT SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE PERMIT SAMPLE PERMIT PERMIT PERMIT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILLAR 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 30 U.S.C. \$ 1318. (Panathes under these statutes may include fines up to \$10,000 MS 39701 32.5 (3 Card Only) (46-53) MD AVG 39703 1,79 如於於於於於 经特殊特殊 於非特特特於 AVERAGE 特於於於於特於 **公共於於於於** 特於於於於於於 QUANTITY OR LOADING 48.3 .075 0,029 MU MAX MO MAX 3.57 **格特特特於縣** FROM MAXIMUM 特殊於於於於於 於於於於於於 於於於於於於於 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(17-19) MSP090021 (20-21) (22-23) (24-25) YEAR MO DAY PERMIT NUMBER · 於於於於 整於於於 MGU *** **经济公共** STIND 03 26) MONITORING PERIOD (4 Card Only) QUANTITY OR CONCENTRATION (58-45) (54-6 HUMINIM 6,4 松葵茶粉替茶 MINIMUM 经营销价价价 於於於於於於於 於於於於於於 公於於於於於於 YEAR MO (26-27) (28-29) (30-31) SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT DISCHARGE NUMBER 100 Konso V MO AVG *U AYO Þ 88.01 REPORT **AVERAGE** 於於於於於於 **特特特特特特** 於於於於於於於 特特特於特於 *** NO DISCHARGE PRETREATED PROCESS NO F - FINAL MINOR (SUBR NO) NOTE: Read instructions before completing this form. 51.10 MU HAX MAXIMUM MAXIMUM 特特特特特特 好好好好於 AREA NUMBER 公外が TELEPHONE 於於於於 STINO 191 19) 121 OMB No. 2040-0004 Φ Approval expires 05-31-98 Form Approved. \$ NO. FREQUENCY (62-63) \$ Φ ANALYSIS (64-68) 音がスピイ 800 ALLY 2/3 **UNT YEAR MO WICE, ががか W DATE GRAB は人を代 SAMPLE び入れが ロスエビ TIME 150 (69-70) DAY

00012/990120-0939

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

LOCATION COLUMBUS FACILITY 14TH VE AND

20TH

STREET NORTH

MS 39701

FROM

YEAR

Mo

DAY

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YEAR MO

MONITORING PERIOD

(20-21) (22-23) (24-25)

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R P MURPHEY

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

MSP090021 PERMIT NUMBER

DISCHARGE NUMBER 003 4

MINOR

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

PRETREATED F - FINAL (SUBR NO) PROCESS

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*** NO DISCHARGE | ***

(26-27) (28-29) (30-31) NOTE: Read instructions before completing this form. NO. FREQUENCY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) RP MURPHEY NAME/TITLE PRINCIPAL EXECUTIVE OFFICER FLOW 9 EFFLUENT 46000 STONEHA F. EFFLUENT 50050 THRU TREATMENT PLANT MEASUREMENT EFFLUENT 0560 GREASE (FREDN PARAMETER TYPED OR PRINTED METH) TOT , ROMEASUREMENT CONDUIT GROSS GROSS PET-MER VALU VALUE 0.20 MEASUREMENT MEASUREMENT MEASUREMENT REQUIREMENT REQUIREMENT MEASUREMENT REQUIREMENT MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE PERMIT PERMIT SAMPLE PERMIT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIS, AND BASED ON AY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE. ACCURATE AND COMPARTE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 19 U.S.C. \$ 1001 AND 3 U.S.C. \$ 1318. (Panaltes under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 6 years.) 32.6 (3 Card Only) (46-53) BAY OR **学校教育教教** 各种分价各种 经债券 经价格格 **AVERAGE** 外外外外外外 外於於於於於於 公司 经公司 经 QUANTITY OR LOADING .075 48.3 0.029 MO MAX NO MAX 於於於於於於於 MAXIMUM 特件特特特特 **特益於於於於** 持於特於好於 各分分分 MSD *** おおなか *** STINO 03) 26) 5.0 (4 Card Only) QUANTITY OR CONCENTRATION (54-6) MINIM 0,0 **特於於特特於** 於於於於於於 经营营营营营 MINIMUM 特於替於特於 於於於於於於於 SIGNATURE OF PRINCIPAL SKECUTIVE OFFICER OR AUTHORIZED AGENT VI N NO AYO 0.33 KEPORT 於於於於於於 **AVERAGE** 40,1 於特殊特殊發 · 特特特特特 於於於於於於 AV ā 5 MO MAX XVW OF 04.46 MAXIMUM **有特殊保存** 於於於於於於 B 66 328-755 9 以於於於於 J-0p TELEPHONE 2 8 1999 於於於於 STIND 19) 19) 12) \$ d (62-63) φ Z 2/30 2/30 YEAR MO M*CE/ ANALYSIS REKLY DRAB AT C 11/ DATE GRAB CRAB 68AB GRAB SAMPLE CON I INO. (69-70) DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) EFFLUENT 50050 EFFLUENT NAME/TITLE PRINCIPAL EXECUTIVE OFFICER THRU TREATMENT PLANT MEASUREMENT FLOW, IN CONDUIT OR ATT.1: R P YURPHEY R.P. MURPHEY 46000 00400 Ĭ HENDLS FFLUENT 0500 EFLUENT GROSS VALUE REQUIREMENT -IR METH) TUT , RC MEASUREMENT GREASE (FREGN **PARAMETER** TYPED OR PRINTED GRUSS RUSS (32-37) GROSS PLANT MGR VALUE REQUIREMENT VALUE REQUIREMENT PULL REQUIREMENT MEASUREMENT MEASUREMENT MEASUREMENT MEASUREMENT MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE PERMIT PERMIT PERMIT AM FAMILIAR WITH THE INFORMATION SUBMITTED HERICAND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED HERICAND BASED ON THE SUBMITTED HERICAND FOR STRUE, ACCURATE AND COMPLETE. 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. \$ 1318. (Parallèse under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 6 years.) 07.5 (3 Card Only) (46-53) 28.6 NO AVG 特外等分替特 於特殊特殊於 於於於於於於 AVERAGE 於於於於於於於 於於於於於於 神经 经经验证券 QUANTITY OR LOADING 4 00 * 00 • 0 **7** 5 6,039 XC BAX XC XAX 10.6 FROM 於於於於條條於 於於 於 於 於 於 MAXIMUM 於於於於於於於 於於於於於於於 120-211 (22-23) (24-25) YEAR 99 ** 整計計算 MO DAY MGD 於於於於 於於於於 BS/D STIND 3) 26) ₩ • • (4 Card Only) QUANTITY OR CONCENTRATION (38-45) MININUM 6,5 5 特殊关格特殊 **经验经营销货** 经外外外外的 MINIMUM 於 於 於 於 於 於 於於於於於於於 於於於於於於於 YEAR MO (26-27) (28-29) (30-31) SIGNATURE OF PRÍNCIPAL/EXECUTIVE OFFICER OR AUTHORIZED AGENT 38.4 SU AV NO AVS スロマロスナ 91 6 教会社会会 松松 特 於 於 於 **AVERAGE** DAY 特特於於於於於 於於於於於於於 **** NO DISCHARGE | ****
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LOCATION COLUMBUS FACILITY 14TH VE AND

20TH STREET NORTH

MS 39701

ADDRESS P O BOX 906

COLUMBUS

NAME

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Differen

KERR-ACGEE (COLUMBUS)

Lowwes

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

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Form Approved.

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

SP090021 PERMIT NUMBER

MONITORING PERIOD

DISCHARGE NUMBER 001 A

F - FINAL (SUBR NO)

PRETREATED PROCESS NAV 2 9 1005 ER

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) LOCATION COLUMBUS NAME/TITLE PRINCIPAL EXECUTIVE OFFICER EFFLUENT 50050 FLOW, IN CONDUIT OR EFFLUENT 46000 PHENOLS 00400 PI THRU TREATMENT FFLUENT GREASE (FRION R P MURPHEY MURPHEY PARAMETER TYPED OR PRINTED METH) TOT , ROMEASUREMENT GROSS GROSS PLANTMEASUREMENT VALU VALU MEASUREMENT MEASUREMENT MEASUREMENT REQUIREMENT MEASUREMENT REQUIREMENT REQUIREMENT MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE PERMIT PERMIT SAMPLE PERMIT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILLAR WITH THE INFORMATION SUBMITTED HERBIY, AND BASED ON MY INQUIRY OF THOSE INCUMDUALS 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. \$ 131. (Pranibs under these staties may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.) MS 39701 (3 Card Only) (46-53) 32.5 MO AVG 各於於於於於於 **经验检验检验 公安公安公安** AVERAGE 於於於於於於於 於於於於於於於 QUANTITY OR LOADING 48.8 .075 MU HAX MU MAK 2028 特益於於持續於 MAXIMUM FROM **操作者的操作** 於於於於於於於 首於特特於於 (20-21) (22-23) (24-25) 99 **益**替於於 经营营营 MGU MO DAY 经营营营 SLIND 03) 26) ن. د (4 Card Only) QUANTITY OR CONCENTRATION (54-6) MINI WUM 6.5 於於於於於於 最終發發榜於 5 **经营营的** MINIMUM 於於於於於於 於於於於於於於 於於於於於於於 (26-27) (28-29) (30-31) YEAR MO DAY 99 09 30 SIGNATURE OF PHINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 88.08 MO AVO TO AV 外外外外外外外 REPORT AVERAGE 婚婦好替替替 **经济保存保持** 於於於於於於於 ***** ND DISCHARTS Q to ****
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FACILITY 14TH VE AND

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YEAR

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PRETREATED PROCESS WW & BOILER

MS 39703

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F - FINAL (SUBR NO) MINOR

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

ADDRESS P Q BOX 906

COLUMBUS

PERMITTEE NAME/ADDRESS (Include Facility Name/Location of Differen

KERR-MCGEE (COLUMBUS)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16)
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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Differ ADDRESS P D BOX 906 KERR-MCGEE (COLUMBUS) COLUMBUS MS 39703

LOCATION COLUMBUS

ATTN: R P MURPHEY

FACILITY 14TH VE AND ZOTH STREET NORTH

MS 39701

FROM

YEAR MO DAY

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MONITORING PERIOD

20-211 (22-23) (24-25)

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

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Form Approved. Approval expires 05-31-98

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

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

00013/990120-0939

LOCATION COLUMBUS FACILITY 14TH VE AND 20TH STREET NORTH ADDRESS P 0 80X 906 NAME PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) ATTN 00400 PHENOLS 00560 50050 46000 EFFLUENT FLOW, IN CONDUIT OR COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) HRU TREATMENT PLANT MEASUREMENT FFLUENT FFLUENT R.P. MURPHEY NAME/TITLE PRINCIPAL EXECUTIVE OFFICER N. RO-IR KERR-MCGEE (COLUMBUS) COLUMBUS 70 GREASE (FREON PARAMETER P MURPHEY METH) TOT , RC MEASUREMENT TYPED OR PRINTED GROSS GRUSS GROSS GROSS PLANT MANAGER VALUE REQUIREMENT VALUE VALU VALUE MEASUREMENT REQUIREMENT MEASUREMENT REQUIREMENT REQUIREMENT MEASUREMENT MEASUREMENT MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT SAMPLE SAMPLE SAMPLE PERMIT SAMPLE PERMIT SAMPLE SAMPLE SAMPLE PERMIT PERMIT PERMIT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, SND BASED ON AM FAMILIAR WITH THE INFORMATION IS IMMEDIATELY RESPONSIBLE FOR SHAUNING THE INFORMATION IS ELLEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FILE AND IMPRISONMENT. SEE 18 U.S.C. \$ 1001 AND 33 U.S.C. \$ 1318. (Panaities under these statutes may include fines up to \$10,000 U.S.C. \$ 1318. (3 Card Only) QUANTITY OR LOADING (46-53) (54-61) DISCHARGE MONITORING REPORT (DMR) MU AVE 39701 39703 84 於於於於於於 **特殊基础特殊 AVERAGE** 好於於於於於 你於於於於於 计算法共并的 於 於 於 於 於 於 44.8 0.037 MO MAK 015 BO MAX MAXIMUM FROM 特於特殊於於於 於於於於於於 84.1 特殊特殊特殊 於於於於於於於 SP 090021 (20-21) (22-23) (24-25) PERMIT NUMBER 於於於 e S 於於於於 **公共共共** MGD STIND 26) 03) MONITORING PERIOD (4 Card Only) QUANTITY OR CONCENTRATION (54-53) J. MINIMUM る 0 MINIMUM **** 於於於於於於 **经验的经验** 於於於於於於 经经济经验经 持於於於於於 YEAR 99 (26-27) (28-29) (30-31) é OO 1 A DISCHARGE NUMBER SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <u>S</u> 000 C MO AVS AVERAGE KEPORT 公会公公公公公公 DAY 经经验经济 於於於於於於於 P 特於於於於於於 AVIS PRETKEATED 本条本 NO DISCHARGE | 本本本 NOTE: Read instructions before completing this form. MINOR (SUBR NO) - FINAL y. 5 5 7.9 MAXL U MO BAX MAXIMUM $\overline{\mathcal{U}}$ **经验检验检验** 法好於於於於於 HAX on PROCESS WW AREA NUMBER 601 328 358 109 09 好好於 MG/1 SLINO 於持於於 BOOK ME LELEBHONE 金 D 161 12) 19) Form Approved.
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EPA Form 3320-1 (08-95) Previous editions may be used.

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

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NAME PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) LOCATION COLUMBUS FACILITY 14TH VE AND 20TH STREET NORTH **ADDRESS** 7 PHENOLS EFFLUENT 50050 FLOW, IN EFFLUENT 46000 30560 THRU TREATMENT 0400 COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) NAME/TITLE PRINCIPAL EXECUTIVE OFFICER R.D. MURPHEY / PLT. MGR. FFLUENT P U BOX 906 KERR-MCGEE (COLUMBUS) COLUMBUS R P MURPHEY GREASE (FREDN PARAMETER TYPED OR PRINTED METH) TOT , RC MEASUREMENT CONDUIT GROSS GROSS GROSS PLANTMEASUREMENT VALUE VALU 9 MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT MEASUREMENT REQUIREMENT MEASUREMENT MEASUREMENT MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT SAMPLE SAMPLE SAMPLE SAMPLE PERMIT SAMPLE SAMPLE PERMIT SAMPLE PERMIT PERMIT PERMIT PERMIT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HERBY, SAD 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. \$ 1013. (Penalties under these statures may include lines up to \$10,000 and or maximum imprisonment of between 6 months and 6 years.) J. (3 Card Only) QUANTITY OR LOADING (46-53) 32.5 MO AVE 39701 1.65 Jun 265 (Junty DISCHARGE MONITORING REPORT (DMR) 於你你你然外 於特 特 於 於 於 **AVERAGE** 於於於於於發 於於於於於於於 於於於於於於於 於於於於於於於 .075 400 6000 MO MAX XO NAX MAXIMUM FROM 發於發發發發 各特特特特特 於於於於於於 95 **特别特特特特** W S P D 9 D 0 2 1 (20-21) 99 PERMIT NUMBER (22-23) (24-25) 於於於 作品が Mo MGD *** 女女女女 STINO 03) 26) MONITORING PERIOD DAY (4 Card Only) QUANTITY OR CONCENTRATION (54-(38-45) • • MINIWIM M 4.0 5 MINIMUM **特特特特特特** 特特特特特特 替 發 替 發 發 替 许 於 於 於 於 於 於 经经营经营的 於於於於於於於 YEAR | MO (26-27) (28-29) (30-31) 99 DISCHARGE NUMBER SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 0 MU AVE **AVERAGE** だけていた。 **산산산산산산 格特於茶特換** DAY 特於於於於於於 ey 於於於於於於於 1999 AV 0 *** NO DISCHARGE | ***
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(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

EPA Form 3320-1 (08-95) Previous editions may be used.

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FACILITY 14TH VE AND 20TH STREET NORTH LOCATIONCOLUMBUS MS 39701

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NATIONAL POLLUTANT DISCHARGE EUMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(17-19)

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

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KERR-MCGEE (COLUMBUS)

NAME

LOCATION COLUMBUS FACILITY 14TH VE AND EFFLUENT I PHENOLS 46000 0550 FLOW. EFFLUENT 0400 THRU TREATMENT COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) NAME/TITLE PRINCIPAL EXECUTIVE OFFICER R. P. MURPACY & GREASE COLUMBUS フィイント PARAMETER TYPED OR PRINTED METHIN GRUSS MURPHEY CONDUIT UR GROSS WEASUREMENT MEASUREMENT MAGER PLANTIMEASUREMENT VALUE VALUE 20TH STREET NORTH REQUIREMENT MEASUREMENT REQUIREMENT REQUIREMENT MEASUREMENT REQUIREMENT MEASUREMENT MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT SAMPLE PERMIT SAMPLE SAMPLE PERMIT SAMPLE PERMIT SAMPLE PERMIT PERMIT CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILLAR WITH THE INFORMATION SUBMITTED HERRIN; AND BASED ON AM FAMILLAR WITH THE INFORMATION IS SUBMITTED HERRIN; AND BASED ON ANY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR ANY INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR SUBMITTED INFORMATION IS OBTAINING THE INFORMATION IS OBTAINING THE INFORMATION IS COURATE AND COMPLETE. I AM AWARE THAT THERE ARE TRUE, ACCUPANTE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING SIGNIFICANT PENALTIES OF THE POSSIBILITY OF FIRE AND INFORMATION SEE 19 U.S.C. \$ 1011 AND 30 U.S.C. \$ 1318. (Penalties under these statutes may include lines up to \$10,000 U.S.C. \$ 1318. (Penalties under these statutes may include lines up to \$10,000 U.S.C. \$ 1318. (Penalties under these statutes may include lines up to \$10,000 U.S.C. \$ 1001 AND 30 U.S.C. \$ 1001 AND 3 MS 39701 (3 Card Only) (46-53) 32.0 39703 MU AVG **兴华华州外** 於非於於於於 **AVERAGE** 特特特特特特 於於 於於於於 经外外外外 **** QUANTITY OR LOADING 400 .075 MO MAX FROM MU MAK MAXIMUM 於於於於於於於 操作發發發發 S **经营营营营** 经经验经济 031 è (20-21) (22-23) (24-25) 整於於於 整於於於 ్ది 유 한 한 한 한 UNITS 060 03) 26) MONITORING PERIOD 핆 (4 Card Only) QUANTITY OR CONCENTRATION (54-45) ا د د MINIMUS 4.9 70 MINIMUM **经营营营营 经存款的** 於於於於於於於 於於於於於於於 於於於於於於於 **经验检验检验** (26-27) (28-29) (30-31) YEAR MO 99 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT REPORT **特殊特殊的** AVERAGE DAY **新替於特於於** 特殊於於於於於 外於於於於於於 AV. **** NO DISCHARGE | ***
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EDA EAR 3320-1 (08-95) Previous editions may be used.

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

00001/990120-0939

PAGE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Differ

KERR-MCGEE (COLUMBUS)

522 vAO

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

MSP090021

PERMIT NUMBER

DISCHARGE NUMBER

(SUBR NO)

Form Approved.

OMB No. 2049-0004

Approval expires 05-31-98

F - FINAL

ADDRESS P U BOX 906



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



LOWNDES LU, FREINERIPIEN, PIDFUTUEL, --





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

Assistant Plant Manager

Enclosures

cc: N. Bock





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





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





AUG 2 8 2001

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Aug of Environmental Quality

Office of Pollution Control

Office of Pollut

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





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





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







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.

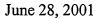
Sincerely,

Larry Hamil

Environmental Compliance & Enforcement Division

LH:clh Enclosure







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



LOWINGS LU, MAIEN, INGINEHIMENI, MIDFUTODE, LLH



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





"Bock, Nick" <nbock@kmg.com> on 08/21/2000 12:52:35 PM

To: John Taylor/SW/OPC/DEQ@DEQ

"Murphey, Ron" <RMURPHEY@KMG.com>, "Swann, Chuck" <CSWANN@KMG.com> CC:

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

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 LU., MERO 90021





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



420 4th Avenue South P. O. Box 949 Columbus, Mississippi 39703 Telephone: (662) 328-7192 Fax: (662) 243-7408

August 18, 2000

W -0.77.

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.

KMCC FPD OKC 662 328 8552;



COLUMBUS LIGHT AND WATER DEPARTMENT

170 4th Avenue South P. Q. Box 949 Columbus, Mississippi 39703 Telephone: (662) 378-7192 Par. (662) 243-7408

August 18, 2000

Mr. John Taylor, P. E., P.G. Industrial Polinitting Section Office of Pallution Control Department of Environmental Quality P. O. Box 10385 Jackson, MS 39289-0385

	671 Date pages
Post-it® Fax Note 7	From N BOCK
TO JOHN HALDE	Co.
Co./Dept. Phone #	Phone # 405 210 254
Fax #/ 354	6612 Fax #
(00)	

REFERENCE: KERK-MCGEE DRAFT PERMIT COMMENTS

Dear Mr. Taylor:

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Sincerely,

Fred Hayslett General Managur

FH/dtc

David R. Bowman, P.E. ÇC; 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

BY: NEEL SCHAFFER INC;

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:

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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-McGec.

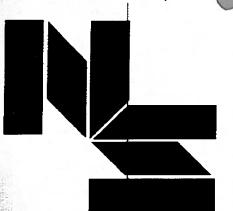
Sincerely,

Fred Hayslett General Manager

FH/dtc

cc: David R. Bowman, P.E.

Necl-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	Shee	t
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FAX Phone No.: 601-354-6612 John Taylor David Bosoman 3:35 cm. 8-18-00 Time: Date: Total Number of Pages in this Transaction (Including Cover Sheet): Comments:

Original in mail -

Please check the appropr	iate box below:	
☐ 1 - Jackson☐ 5 - Nashville☐	2 - Hattiesburg 4 6 - Tupelo Columbus	☐ 4 - Baton Rouge ☐ 7 - Birmingham
□ 8 - Atlanta	9 - Corporate	☐ Overhead
☐ Proposal	Personal No.	☐ Project No.
FAX Operator for Ne	eel-Schaffer:	alsh

PLEASE NOTIFY US IF THE MESSAGE IS INCOMPLETE OR UNCLEAR. THANK YOU.



August 3, 2000

John Taylor P. E. Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Draft Wastewater Permit For Kerr-McGee Chemical LLC, Columbus, MS Wood

Preserving Facility, MS0056472

Dear Mr. Taylor:

Re:

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.



AUG - 9 2000

AUG - 9 2000

Politica of Pollution Control

Mr. John Taylor August 4, 2000 Page 2

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



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



LUWNUES LU, WAIER, FRE-INEHI, MOTUTUS CI, LLA



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



LOWN DES LO., WATER, PRETREATMENT, CLH, MSP090021



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

Assistant Plant Manager

Enclosures

cc: N. Bock



LOWNDES CO. PRE-IKEATMENI





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.





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







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

Assistant Plant Manager

Enclosures

cc: N. Bock



LOWNOES CO. TREINEMINIENT, LLA





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



LOWN DES CO., WATER PRETREATMENT, MSP090021, CLA



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

Assistant Plant Manager

Charles J. Swann

Enclosures

RPM/cjs

cc: N. Bock

Steve Barksdale

CERTIFIED RETURN RECIEPT
7000 0520 0016 3783 2536





RECEIVED OCT 3 1 2000

October 27, 2000

Oest, of Environmental Quality Office of Pollution Control

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
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock Steve Barksdale

2 387 296 554



LOWNDES CO., PRE-TREAT CLH MSP0900



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
Plant Manager

Enclosures

RPM/cjs

cc: N. Bock Steve Barksdale

Certified Return Reciept -





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

FILL JPY (

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



"Bock, Nick" <nbock@kmg.com> on 08/21/2000 12:52:35 PM

To: John Taylor/SW/OPC/DEQ@DEQ

"Murphey, Ron" <RMURPHEY@KMG.com>, "Swann, Chuck" <CSWANN@KMG.com> CC:

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

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 LU, THE MERCY CON LAND





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



420 4th Avenue South P. O. Box 949 Columbus, Mississippi 39703 Telephone: (662) 328-7192 Fax: (662) 243-7408

AUG 2 1 2000

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.
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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.

662 328 6552;

COL.

3:44PM; PAGE 2/2

2001

1

COLUMBUS LIGHT AND WATER DEPARTMENT

920 4th Avenuc South
P. O. Box 949
Columbus, Mississippi 39703
Telephane: (662) 328-7192
Par: (662) 243-7408

August 18, 2000

Mr. John Taylor, P. E., P.G. Industrial Pounitting Section Office of Pollution Control Department of Environmental Quality P. O. Box 10385 Jackson, MS 39289-0385 Post-it® Fax Note 7671 Date pages

To JALV TAYLOR From N BOCK

Co./Dept. Co.

Phone # 405 270 28%

Fax # 60 354 66/2 Fax #

REFERENCE: KERR-MCGEE DRAFT PERMIT COMMENTS

Dear Mr. Taylor:

In regard to our letter of August 14, 2000, our staff and engineer and Kerr-McGes 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 phrange 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-McGez's pretreatment permit if these changes are acceptable to Kerr-McGez.

Sincerely,

Fred Hayslett General Manager

FH/dtc

cc: David R. Bowman, P.E. Neel-Schaffer, Inc.

601 354 6612



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

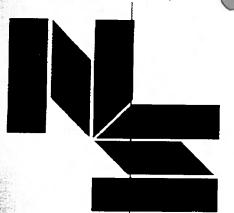
cc: David R. Bowman, P.E.

Necl-Schaffer, Inc.

AUG-1

0 3:42PM;

PAGE 1/2



NEEL-SCHAFFER, INC. ENGINEERS • PLANNERS

Post Office Box 2100 Columbus, MS 39704-2100 Ph. (662) 328-4547 Fax No. (662) 328-8552

	FAX Transmission Taylor FAX Phone No.: I'd Boroman	n Sheet
To: Jak	r Taylor FAX Phone No.:	601-354-6612
From: Da	rid Boroman	
Date: 8-18	7 Time: 3:	35m.
Total Number of F	ages in this Transaction (Including Cover Shee	et): 2
Comments:		
-	Original in mail -	
Please check the app	propriate box below:	
☐ 1 - Jackson	2 - Hattiesburg	4 - Baton Rouge
☐ 5 - Nashville	4-6-Tupelo Columbus	7 - Birmingham
☐ 8 - Atlanta	☐ 9 - Corporate	☐ Overhead
☐ Proposal	Personal No.	☐ Project No.
FAX Operator fo	r Neel-Schaffer: Mile Wal	(sh)

PLEASE NOTIFY US IF THE MESSAGE IS INCOMPLETE OR UNCLEAR. THANK YOU.



August 3, 2000

John Taylor P. E. Office of Pollution Control P.O. Box 10385 Jackson, MS 39289-0385

Draft Wastewater Permit For Kerr-McGee Chemical LLC, Columbus, MS Wood

Preserving Facility, MS0056472

Dear Mr. Taylor:

Re:

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.



AUG - 9 2000

Office of Pollution Control

Mr. John Taylor August 4, 2000 Page 2

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



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





STATE OF MISSISSIPPI

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

July 25, 2000



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 LOWNDES Co., YKE-TREATMENT, MSP090021



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

MEMORANDUM

FILE COPY

TO: File

FROM: John C. Taylor

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 - Yellow Pages - Help

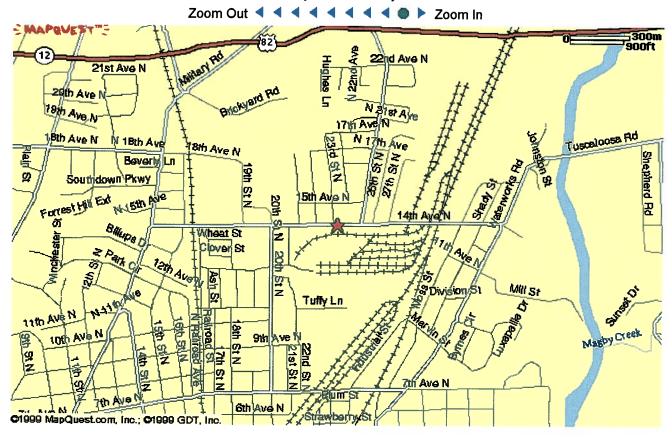
Powered by Mapquest.com (tm)



Welcome, Guest User Yahoo! Maps

<u>Create My Favorite Locations</u> - <u>Sign In</u> <u>Interactive Map</u>

2300 14 Avenue North, Columbus, MS 39701-2516



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Pre-Permitting Inspection Photos Kerr-McGee Chemicals Columbus, Ms/Lowndes County MSP090021 July 11, 2000

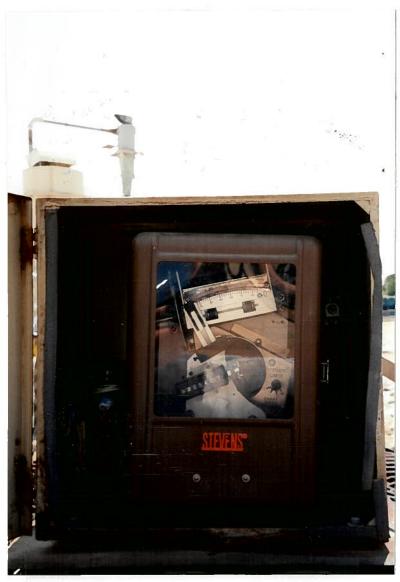




Photo 1 - Stevens Totalizer Flow Monitoring System

Photo 2 - V-Notch Weir for Effluent Flow Monitoring

Page 2 Inspection Photos Continued July 11, 2000



Photo 3 - Primary Separators and Clarifiers



Photo 4 - Settling Tanks and Oil/Water Separator with Vent Stack

MSPO90021



June 23, 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 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
Plant Manager

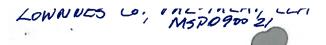
Enclosures

RPM/cjs

cc: N. Bock

CERTIFIED Z 344416187







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



TO: MR. John Taylor

Company: MSDEの



KERR-McGEE CHEMICAL LLC

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

fax: 662-329-3424

FROM:

Date:

Fax No.	601 354 6612	Pages, incl. Cover 3	
Comments	5		
Mr.	Taylor,		
Plas	<u> </u>	- a copy of March's DMF ight Copy's will be maile	to be to your
- Agrico	THE THOMAS		
-	<u></u>	Thanks,	
		huck Swan	

LOWNDES LO. FISE-IKEHMENI, CLA MSPO90021



April 20, 2000

RECEIVED

APR 2 8 2000

Dect. of Environmental Quality

Office 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 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

2344416184



Comments



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

	-
Mr. Taylor,	-
	7
for January + February 2000. We have not prepared	- 0
March's DAR that is due April 25, I will true to get the	_
regulto of samples for the last used in Moveh lower my	2sb
tommorrow and I flore you the March DMR then.	
tommorrow and I flor you the March DMR then. If you need any additional info, Call me at 662-328-7	- 155ト
	-
Thanks.	-
huck Awan	





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









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

N. P. Murphey R.P. Murphey

Plant Manager

Enclosures

RPM/cjs







Lounder Co.



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:

- Pretreatment Permit Application Form 2-P
- A location map of the facility. 2.
- Figure 1, Water Balance, depicting flow direction, average daily flows, process equipment and wastestream classifications.
- 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.
- 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.
- 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



This is a fax from...

KERR-McGEE CHEMICAL LLC

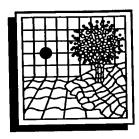
FOREST PRODUCTS DIVISION
2300 14th Avenue North
Columbus, MS 39701
662-328-7551

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 Administrativo 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



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

N.P. Murphey

Plant Manager

Enclosures

RPM/cjs







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

N. P. Murphey

Plant Manager

Enclosures

RPM/cjs





MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

James I. Palmer, Jr., Executive Director

February 25, 2000

Mr. Nick Bock Manager, Regulatory Compliance and Environmental Affairs Kerr-McGee Chemical, LLC Kerr-McGee Center Oklahoma City, OK 73125 FILE GOPY

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

(file w/ inspection reports, to 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,

DAS:das



<u>CERTIFIED MAIL</u> 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 PRODUCT DIVISION

Nick Bock

Manager, Regulatory Compliance and Environmental Affairs

cc: R. P. Murphey, Facility





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 / 3

R.P. Murphey Plant Manager

Enclosures

RPM/cjs





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







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





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







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.
- 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).
- 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.

- 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).
- 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.

1

- 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



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







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

Ron P. Murphey Plant Manager

Rorald Muzz

Enclosures

RPM/tjj







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,

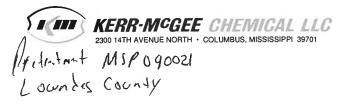
KERR-MCGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

R.P. Murphey Plant Manager

Enclosures

RPM/cjs





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
Plant Manager

Enclosures

RPM/cjs







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,

Maggie Carney

MC

Environmental Permits Division

cc: Ms. Gwin Ford, DEQ/OPC







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





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







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 48

R.P. Murphey

Plant Manager

Enclosures

RPM/cjs





April 13, 1999

RECEIVED

APR 1 4 1999

Dept. of Environmental Quality
Office of Pollution Constitution

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





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





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

Brad Shark



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





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:

RECEIPT LETTER: 06/28/1999

07/11/2000

APP TYPE:

RE-ISSUE

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:

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		OTHER INFORMATION	
LINE 1:	2300 14th Avenue and 20th Street	MASTER ID:	001696
LINE 2:		COUNTY:	Lowndes
LINE 3:		REGION	NRO
MUNICIPALITY:	Columbus	SIC 1:	2491
STATE CODE:	MS	AIR TYPE:	SYNTHETIC MINOR
ZIP CODE:	39703-	HW TYPE:	TSD
MAILING ADDRES	SS	SOLID TYPE:	
LINE 1:	2300 Fourteenth Avenue North	WATER TYPE:	INDUSTRIAL
LINE 2:		BRANCH:	Chemical Branch
LINE 3:		ECED CONTAC	т:
MUNICIPALITY:	Columbus	,	
STATE CODE:	MS	BASIN:	
ZIP CODE:	39701-	Tombigbee River	Basin
AIR PROGRAMS	☐ SIP ☐ PSD ☑ NSPS ☐	NESHAPS N	IACT



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:

Operaior.

Branch:

SIC Code:

Timber & Wood Products

Existing Site Permits

2491

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 Hazardo Permit Type – Per			Permit Contact
Permit Basis:			
Unit Name	Unit Description	Activity	Coverage
Waste Listing(s) a	nd Description		
Waste Listing(s) a	nd Description		

•

. 1

	Water Permits ype – Permit No			Permit Contact
Pretreatm	ent No. MSP090	0021		JCT
Permit B	asis:			
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
Pollutant	s of Concern:		Basis of Limitation	n:
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:	





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.

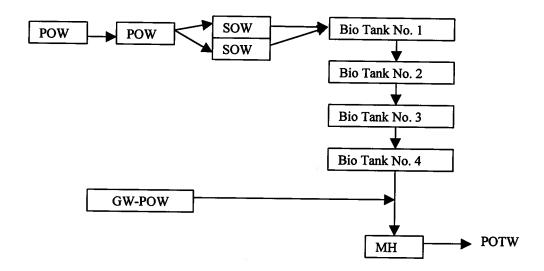
Page No. 18, Section 1.9.A., Penta-chloro-phenol

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:



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

V			
	Average	0.029	0.023
	Max Min. No. Values	12	12
	Min.	0.027	0.019
1000000	Мах	3.032	0.025
	Aug. Sep. Oct. Nov. Dec.	0.029 0.029 0.032 0.027	0.019 0.025 0.019
1000	Nov.	0.029	0.021
	Oct.	0.029	0.023
100000000000000000000000000000000000000	Sep.	0.028	0.024
		0.027	0.024
	. Jul.	0.029	0.023
	Apr. May Jun.	0.028	0.023
	May	0.031 0.029 0.028	0.023 0.023 0.023
	Apr		
	Mar.	0.032	0.024
	Feb.	0.031	0.025
	Jan.		0.025
	Year	1999	1999
The second secon	WWT Flow (MGD)	Maximum (MGD)	Average (MGD)
	=15		

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

١ 66ك 966 l 786 r 986 l 146 F ¥ea 1975 496₽ ۷96 ا 996 l £961 736 f Precipitation (in)

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)			(optional)	
LAXIMUM 30 LUE f	DAY	c.LONG TERM AVRG VALUE (ff available)		d'NO. OF ANAL- YSES			ALONG TERM AVERAGE VALUE		bNO, OF ANAL- YSES
ailable)	(2) MASS		(2) MASS		a, CONCENT- b. RATION M	b. MASS	(J) CONCENT- RATION	(2) MASS	
North					H				
								\ 	
					+				2
ALUE		VALUE		12	M-Gallons		VALUE	4	71
77,000 Gal/Mon.		0.023 M-Gallons/day			/Month		0.023 Gailon/Mollul		,
ATTIE	Ì	VALUE		1	EC		VALUE		
200 (octimate)	-	 60ºF (estimate)					60°F (estimate)	ate)	
JO'r (esuman		VALIE		_	EC		VALUE		 유
VALUE		Cotomitacy Tipog					90°F (estimate)	ate)	
30°F (estimate)	(e	90'r (esumate)							
MIN	MAX			36	STANDARD UNITS	2112	· · · · · · · · · · · · · · · · · · ·		
5.9	7.9								

Page 5

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

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued:

Expires: September 11, 2005

Permit No: MSP090021

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		DISCHARGE LIMITATIONS	IMITATIONS		MONITORING REQUIREMENTS	UIREMENTS
PARAMETER	(lbs/day)	(lbs/day)	Other Units (Specify)	s (Specify)	Measurement	Sample
	Annual Avg.	Annual Max.	Annual Avg.	Annual Max.	Frequency	Type
Pentachlorophenol	0.65	0.97	1.19 mg/l	1.79 mg/l	Twice/Year	Grab
(EPA Method 604 or 625)						X
Chromium, Total Recoverable		1.28	Report (mg/l)	2.36 mg/l	Twice/Year	Composite
(EPA Method 218.1, 218.2 or 200.7)			8.			
Arsenic, Total Recoverable		1.28	Report (mg/l)	2.36 mg/l	Twice/Year	Composite*
(EPA Method 206.2, 206.3, or 200.7)					24 24	. 11
Copper, Total Recoverable		1.60	Report (mg/l)	2.95 mg/l	Twice/Year	Composite
(EPA Method 220.1, 220.2, or 200.7)		- ·				

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.

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.

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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.
- 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.

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- 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:

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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

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

9. Other Noncompliance

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

10. Right of Entry

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

- To enter upon the permittee's premises where a wastewater source is located or in which records are required to be kept under the terms and conditions of this permit; and
- b) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any wastewater generated at this facility.
- c) In the event of investigation during an emergency response action, a reasonable time shall be any time of the day or night.

11. Transfer of Ownership or Control

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

12. Signatory Requirements 40 CFR 403.12(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:

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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

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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 $Q_W = 0.036 \text{ MGD}$
- 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}

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C. Receiving Stream: Luxapallila Creek $(7Q_{10} \text{ Flow} = 38.1 \text{ MGD})$

IV. Pertinent Industrial Loading Calculations

A. X_{ta} - Current maximum permitted loads

<u>Parameter</u>	Johnson	North Amer.	Keystone	X _{tat}
	(lbs/day)	(lbs/day)	(lbs/day)	(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.

<u>Parameter</u>	Johnson <u>(lbs/day)</u>	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

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Kerr-McGee Rationale (Continued)
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 $BG_L(Phenol) = 48.77 lbs/day$

 $BG_L(Penta) = 0.0 lbs/day (Assumed from Revised Application)$

(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 = $Q_{POTW}/(Q_{7010} + Q_{POTW})$

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

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$$AWQC_{(Phenol)} = 8.34(45.14)(0.102)/(1-.59) = 94 lbs/day$$

 $AWQC_{(Penta)} = 8.34(45.14)(0.0021)/(1-.25) = 1.05 lbs/day$

- (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

$$HWI_L = 8.34 (Q_{POTW}) (^{(4)}C_{INH})$$

$$HWI_L(As) = 8.34(7.04)(0.1) = 6 lbs/day$$

$$HWI_L(Cu) = 8.34(7.04)(1) = 59 lbs/day$$

$$HWI_L(Cr) = 8.34(7.04)(1) = 59 lbs/day$$

$$HWI_{L(Phenol)} = 8.34 (7.04)(50) = 2936 lbs/day$$

$$HWI_{L(Penta)} = 8.34(7.04)(0.95) = 56 lbs/day$$

 $(4)\,C_{\text{INH}}$ 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."

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VIII.

Limiting Case Summary Table

 $\begin{array}{l} \text{If AWQC} < \text{HWI}_{\text{L}} \\ \text{L}_{\text{C}} = \text{AWQC} \end{array}$

 $\begin{array}{ll} \text{If } \text{HWI}_{\text{L}} < \text{AWQC} \\ \text{L}_{\text{C}} = \text{HWI}_{\text{L}} \end{array}$

BG _L < L _c Chronic	Fail,	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Pass	1	1	Pass
BG	lbs/day	0.18	1.93	1.71	48.77	0.0
Chronic	1bs/day	9	18	59	94	1.05
Acute L	lbs/day	9	25	59	275	1.67
Chronic AWQC	1bs/day	130	18	211	94	1.05
Acute AWQC	1bs/day	246	25	650	275	1.67
HWI	1bs/day	9	59	59	2936	56
	Parameter	Arsenic	Copper	Chromium	Phenol	Penta

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Kerr-McGee Rationale (Continued)
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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: $P_{AI} = (L_C, lbs/day - BG_L, lbs/day) Q_I, MGD$ Q_T, MGD

 C_{ALLOW} , mg/l = P_{AI} , lbs/day 8.34(Q_{I} , MGD)

where, P_{AI} = Permit Allocation for Industry

 Q_T = Total Industrial Contributory Flow for Pertinent Pollutant

 $Q_{\rm I}$ = Requested Industrial Discharge by Applicant 0.05 MGD

 L_{C} = Limiting Case Loading

 $BG_L = Background Loading$

Acute Calculations:

Arsenic $P_{AI} = (6 - 0.18)(0.065/0.065) = 5.82 \text{ lbs/day}$ $C_{ALLOW} = 5.82/(8.34 \times 0.065) = 10.74 \text{ mg/l}$

Copper $P_{AI} = (25 - 1.93)(0.065/(0.065 + 0.036 + 0.00145 + 0.0442))$ = 10.23 lbs/day $C_{ALLOW} = 10.23/(8.34 \times 0.065) = 18.87 \text{ mg/l}$

Chromium $P_{AI} = (33 - 1.71)(0.065/(0.065 + 0.036 + 0.0442))$ = 14.01 lbs/day $C_{ALLOW} = 14.01/(8.34 \times 0.065) = 25.84 \text{ mg/l}$

Phenol $P_{AI} = (275 - 48.77)(0.065/0.065) = 464.23 \text{ lbs/day}$ $C_{ALLOW} = 464.23/(8.34 \times 0.065) = 856.35 \text{ mg/l}$

Penta $P_{AI} = (1.67 - 0.0)(0.065/0.065) = 1.67 \text{ lbs/day}$ $C_{ALLOW} = 1.67/(8.34 \times 0.065) = 3.08 \text{ mg/l}$

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Chronic Calculations:

Arsenic
$$P_{AI} = (6 - 0.18)(0.065/0.065) = 5.82 \text{ lbs/day}$$
 $C_{ALLOW} = 5.82/(8.34 \times 0.065) = 10.74 \text{ mg/l}$

Copper $P_{AI} = (18 - 1.93)(0.065/(0.065 + 0.036 + 0.00145 + 0.0442))$ $= 7.12 \text{ lbs/day}$ $C_{ALLOW} = 7.12/(8.34 \times 0.065) = 13.14 \text{ mg/l}$

Chromium $P_{AI} = (22 - 1.71)(0.065/(0.065 + 0.036 + 0.0442))$ $= 9.08 \text{ lbs/day}$ $C_{ALLOW} = 9.08/(8.34 \times 0.065) = 16.76 \text{ mg/l}$

Phenol $P_{AI} = (175 - 48.77)(0.065/0.065) = 126.23 \text{ lbs/day}$ $C_{ALLOW} = 126.23/(8.34 \times 0.065) = 232.85 \text{ mg/l}$

Penta $P_{AI} = (1.05 - 0.0)(0.065/0.065) = 1.05 \text{ lbs/day}$ $C_{ALLOW} = 1.05/(8.34 \times 0.065) = 1.94 \text{ mg/l}$

X. Summary Table

	BG _{CONC} Domestic ⁽⁵⁾		le Limiting	Max. Concen. Listed From	Part 429 Categorical
<u>Parameter</u>	<u>Concentration</u>	<u>Acute</u>	Chronic	Application, ppm	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

	Monthly	Average	Monthly M	aximum
<u>Parameter</u>	<u>Lbs/day</u>	mq/l	Lbs/day	mg/l
Flow			0.075 MGD	
Oil & Grease		Report		59
Total Phenols	32.6	52	48.8	78

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	Annual Av	verage	Annual Ma	aximum
	<u>Lbs/day</u>	<u>mg/l</u>	<u>Lbs/day</u>	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)

COLUMBUS	POTW (MS	(0023868)											
	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 (ib/d)	BG (lb/d)
12/03/96	(IVIGD) 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 ND		
02/18/97	7.77	0.0400	2.5921		2.5921	0.0100	0.6480		0.6480	ND 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			ND	ND		
04/08/97	7.72	ND	ND			ND	ND			ND	ND		
04/22/97	7.72	ND	ND ND			ND	ND			ND	ND		
05/06/97	7.67 7.67	ND ND	ND			ND	ND			ND	ND		
05/21/97	7.07	ND.	110										
		Penta BG =	0.1718 r	ng/L		Phenol BG:	0.8366						
	Qpotw	Arsenic		UT	BG	B eryllium		UT	BG	Cadmium		UT	BG
	(MGD)	(mg/L)	(lb/d)	(lb/d)	(lb/d)	(mg/L)	(lb/d)	(lb/d)	(lb/d)	(mg/L)	(lb/d)	(lb/d)	(lb/d)
12/03/96	(IVIGID) 7.50	ND	ND			ND	ND -		ź	ND		0.0085	
12/17/96	7.50	ND	ND			ND	ND			ND		0.0085	0.0240
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 ND		0.0057 0.0067	
02/04/97	7.77	ND	ND			ND	ND			ND		0.0067	
02/18/97	7.77	ND	ND			ND	ND ND			ND		0.0064	
03/04/97	7.94	ND	ND .			ND ND	ND			ND		0.0064	
03/18/97	7.94	ND	ND			ND	ND			ND		0.0048	
04/08/97	7.72	ND	ND ND	******		ND	ND			ND		0.0048	
04/22/97	7.72 7.67	ND ND	ND			ND	ND			ND		0.0097	
05/06/97 05/21/97	7.67	ND	ND			ND	ND			0.0100	0.6397	0.0097	0.6300
03/21/37	1.07									0.1.70	0.0000		
			36			8				Cd BG =	0.0099		
	Qpotw	Cyanide		UT	BG	Chromium		UT -	BG	Copper		UT	BG
	(MGD)	(mg/L)	(lb/d)	(lb/d)	(lb/d)	(mg/L)	(lb/d)	(lb/d)	(lb/d)	(mg/L)	(lb/d)	(lb/d)	(lb/d)
12/03/96	7.50	ND	ND	0.0035		ND	ND	0.0116		0.0600	3.7530	0.0206	3.7324 2.4814
12/17/96	7.50	ND	ND	0.0035		ND	ND	0.0116		0.0400	2.5020	0.0206 0.0200	3.8231
01/08/97	7.68	ND	ND	0.0019		ND	ND	0.0181		0.0600 0.0200	3.8431 1.2810	0.0200	1.2610
01/21/97	7.68	ND	ND	0.0019		ND	ND	0.0181 0.0330		0.0200	0.6480	0.0227	0.6253
02/04/97	7.77	0.0200	1.2960	0.0036	1.2924	ND ND	ND ND	0.0330		0.0500	3.2401	0.0227	3.2174
02/18/97	7.77	ND	ND	0.0036 0.0018		ND	ND	0.0334		0.0100	0.6622	0.0204	0.6418
03/04/97	7.94 7.94	ND ND	ND ND	0.0018		0.0300	1.9866	0.0334	1.9532	0.0600	3.9732	0.0204	3.9528
03/18/97 04/08/97	7.94 7.72		ND	0.0003		ND	ND	0.0444		0.0300	1.9315	0.0188	1.9127
04/06/97	7.72		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	
													200
	Qpotw	Hex Chrome		UT	BG	Mercury		UT	BG	Nickel		UT	BG
	(MGD)	(mg/L)	(lb/d)	(lb/d)	(lb/d)	(mg/L)	(lb/d)	(lb/d)	(lb/d)	(mg/L)	(lb/d)	(lb/d)	(lb/d) 5.6295
12/03/96	7.50		ND			ND	ND			0.0900	5.6295		5.0295
12/17/96	7.50		ND	******		ND	ND		0.0256	ND ND	ND ND		
01/08/97	7.68	ND ND	ND			0.0004	0.0256		0.0256		ND		
01/21/97	7.68		ND			0.0004	0.0256		0.0256 0.0389		ND		
02/04/97	7.77		ND			0.0006	0.0389 ND			ND	ND		
		' ND	ND		188	ND ND	ND ND			ND	ND		
02/18/97	7.77						IND						
03/04/97	7.94	ND	ND							ND	ND		
03/04/97 03/18/97	7.94 7.94	ND ND	ND			ND	ND			ND 0.0900	ND 5.7946		5.7946
03/04/97 03/18/97 04/08/97	7.94 7.94 7.72	ND ND ND	ND ND			ND ND	ND ND						
03/04/97 03/18/97 04/08/97 04/22/97	7.94 7.94 7.72 7.72	ND ND ND ND	ND ND ND			ND ND ND	ND			0.0900	5.7946 ND ND		
03/04/97 03/18/97 04/08/97 04/22/97 05/06/97	7.94 7.94 7.72 7.72 7.67	ND ND ND ND	ND ND ND ND			ND ND	ND ND ND			0.0900 ND	5.7946 ND		
03/04/97 03/18/97 04/08/97 04/22/97	7.94 7.94 7.72 7.72	ND ND ND ND	ND ND ND			ND ND ND ND	ND ND ND ND			0.0900 ND ND	5.7946 ND ND		5.7946

						Domestic Ba Calculation							
12/03/96 12/17/96 01/08/97 01/21/97 02/04/97 02/18/97 03/04/97 03/18/97 04/08/97 04/02/97 05/06/97 05/21/97	Qpotw (MGD) 7.50 7.68 7.68 7.77 7.77 7.94 7.94 7.72 7.67	O&G (mg/L) 19.6000 14.0000 5.2000 11.6000 12.4000 7.6000 19.2000 13.6000 4.8000 12.8000 18.4000	(lb/d) 6.4000 12.4000 12.8000 6.8000 2.0000 2.4000 4.8000 0.0500 7.6000 0.8000	UT (lb/d)	BG (lb/d) 6.4000 12.4000 12.8000 6.8000 2.0000 2.4000 4.8000 0.0500 0.8000 7.6000 0.8000	Lead (mg/L) ND	(Ib/d) ND ND ND ND ND ND ND ND ND ND	UT (lb/d)	BG (lb/d)	Antimony (mg/L) ND	(15/d) ND ND ND ND ND ND ND ND ND ND ND	UT (lb/d)	BG (lb/d)
= = A		O&G BG =	0.0825	mg/L									
12/03/96 12/17/96 01/08/97 01/21/97 02/04/97 02/18/97 03/04/97 04/08/97 04/08/97 05/06/97 05/06/97	Qpotw (MGD) 7.50 7.68 7.68 7.77 7.77 7.94 7.94 7.72 7.72 7.67	ND ND ND ND ND ND ND ND ND ND ND ND ND N	(Ib/ð) ND ND ND ND ND ND ND ND ND ND ND ND ND	UT (lb/d)	BG (lb/d)	Thallium (mg/L) ND	(Ib/d) ND	UT (lb/d)	BG (lb/d) 	Zinc (mg/L) 0.0900 0.1000 0.1400 0.0500 0.1100 0.0600 0.0600 0.0600 0.0600 0.0600 0.0600 0.0600 0.0600	(lb/d) 5.6295 6.2550 8.9672 3.2026 12.3123 7.1282 3.9732 3.9732 3.8631 3.8631 3.8381	UT (lb/d) 0.0548 0.0548 0.0448 0.0548 0.0548 0.0589 0.0589 0.0387 0.2897	BG (lb/d) 5.5747 6.2002 8.9224 3.1578 12.2575 7.0734 3.9143 3.9143 3.8244 2.9087 3.5484
								*5		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):

	UT Flow
Mth/Year	(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





COLUMBUS POTW (MS0023868)

	Penta influent			effluent	Silver influent	effluent	Arsenic influent	effluent	B eryllium influent ND	effluent ND	Cadmium influent ND	effluent ND
12/03/96	0.1000	0.2000	0.5000	0.3000		ND	ND	ND	ND	ND	ND	ND
12/17/96	0.1000	0.1000	1.4000	0.7000		ND	ND	ND	ND	ND	0.0100	0.0100
01/08/97	0.2000	0.2000	0.9000	0.6000		ND	ND	ND	ND	ND	ND S.S155	ND
01/21/97	0.5000	0.4000	2.5000	0.6000		ND	ND	ND		ND	ND	ND
02/04/97	0,2000	0.1000	0.5000	0.9000		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 N	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/08/97			ND.	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/22/97			ND.	ND	ND	ND	ND	ND	ND		ND	ND
05/06/97	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.0100	
05/21/97	ND		٧D	ND	ND	ND	ND	ND	ND	ND	0.0100	
SUM REM EFF	1.1000	0.8300 0.2455	5.3800	2.2000 0.5911							0.0200	0.0100 0.5000
		,			Copper		Hex Chrom	ne	Mercury		Nickel	
	Cyanide		Chromium nfluent	effluent	influent	effluent	influent	effluent	influent	effluent	influent	effluent
	influent	•		ND	0.0600			ND	ND	ND	0.0900	
12/03/96	ND		ND	ND	0.0400			ND	ND	ND	ND	ND
12/17/96	ND		ND	ND	0.0600			ND	0.0004			ND
01/08/97	ND		ND	ND	0.0200			ND	0.0004	0.0000	ND	ND
01/21/97	ND		ND	ND	0.0100			ND	0.0006	0.0000	ND	ND
02/04/97	0.0200	0.0000		ND	0.0500			ND	ND	ND	ND	ND
02/18/97	ND		ND	ND	0.0100			ND	ND	ND	ND	ND
03/04/97	ND		ND		_			ND	ND	ND	ND	ND
03/18/97	ND	ND	0.0300	ND	0.0300			ND	ND	ND	0.0900	
04/08/97	ND		ND		0.0300			ND	ND	ND	ND	ND
04/22/97	ND		ND	ND	0.0300			ND	ND	ND	ND	ND
05/06/97	ND	0.0200		ND ND	0.0300			ND	ND	ND	ND	ND
05/21/97	ND	ND	ND	NU	0.0100						0.1800	0.0600
SUM REM EFF	0.0200	0.0000 1.0000	0.0300	0.0000 1.0000		0.1200 0.7073			0.0014	0.0000 1.0000		0.6667
	000		Lead		Antimony		Selenium		Thallium		Zinc	
	O&G influent		influent	effluent	influent	effluent	influent	effluent	influent	effluent	influent	effluent
40/00/06	19.6000			ND	ND	ND	ND	ND	ND	ND	0.0900	
12/03/96	19.6000			ND	ND	ND	ND	ND	ND	ND	0.1000	
12/17/96	5.2000			ND	ND	ND	ND	ND	ND	ND	0.1400	
01/08/97	11.6000			ND	ND	ND	ND	ND	ND	ND	0.0500	
01/21/97	18.0000			ND	ND	ND	ND	ND	ND	ND	0.1900	
02/04/97	12,4000			ND	ND	ND	ND	ND	ND	ND	0.1100	_
02/18/97	7.6000			ND	ND	ND	ND	ND	ND	ND	0.0600	
03/04/97				ND	ND	ND	ND	ND	ND	ND	0.060	
03/18/97	19.2000			ND	ND	ND	ND	ND	ND	ND	0.060	
04/08/97	13.6000			ND	ND	ND	ND	ND	ND	ND	0.060	
04/22/97	4.8000			ND	ND	ND	ND	ND	ND	ND	0.050	
05/06/97	12.8000			ND	ND	ND	ND	ND	ND	ND	0.060	0.0300
05/21/97	18.4000	0.8000	טא	NU	ND	,,,,		i			1.030	0 0.4300
SUM	152.0000	50.8000									1,030	0.5825
REM EFF	,02.000	0,6658										0.5625
NEWI EFF					DED.							
	INDICAT	TES A DATA F	ON TAIO	CONSIDE	KEU.							

ALL VALUES ARE CONCENTRATIONS AS PARTS PER MILLION.

INDICATES A LESS THAN THE LIMIT OF DETECTION. FOR THIS ANALYSIS, ZERO WAS USED.

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 $Q_w = 0.036 \text{ MGD}$
- 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}

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Kerr-McGee Rational (Continued)
July 1, 2000

C. Receiving Stream: Luxapallila Creek $(7Q_{10} \text{ Flow} = 38.1 \text{ MGD})$

IV. Pertinent Industrial Loading Calculations

A. X_{ta} - Current maximum permitted loads

<u>Parameter</u>	Johnson	North Amer.	Keystone	X _{tat}
	(lbs/day)	(lbs/day)	(lbs/day)	(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.

<u>Parameter</u>	Johnson <u>(lbs/day)</u>	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 = $8.34(BG_{C(1)}, mg/1)(Q_{POTW} - SumQ_{Industrial}, MGD)$

 $BG_L(Cu) = 1.93 lbs/day$

 $BG_L(Cr) = 1.71 lbs/day$

 $BG_L(As) = 0.18 lbs/day$

 $BG_L(Fe) = [7 MGD(8.34) (UNKNOWN)] - [0.018 MGD(8.34) (15.5 mg/l)]$

= UNKNOWN? Assumed Zero

 $BG_L(Mn) = UNKNOWN?$ Assumed Zero

 $BG_L(Mg) = UNKNOWN?$ Assumed zero

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Kerr-McGee Rationale (Continued)
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 $BG_{L}(Phenol) = 48.77 lbs/day$

 $BG_L(Penta) = 0.0 lbs/day$ (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

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Kerr-McGee Rationale (Continued)
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$$AWQC_{(Phenol)} = 8.34(45.14)(0.102)/(1-.59) = 94 lbs/day$$

 $AWQC_{(Penta)} = 8.34(45.14)(0.0021)/(1-.25) = 1.05 lbs/day$

- (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

$$\begin{aligned} & \text{HWI}_{\text{L}} = 8.34 \, (\text{Q}_{\text{POTW}}) \, (^{(4)}\text{C}_{\text{INH}}) \\ & \text{HWI}_{\text{L}}(\text{As}) = 8.34 \, (7.04) \, (0.1) = 6 \, \text{lbs/day} \\ & \text{HWI}_{\text{L}}(\text{Cu}) = 8.34 \, (7.04) \, (1) = 59 \, \text{lbs/day} \\ & \text{HWI}_{\text{L}}(\text{Cr}) = 8.34 \, (7.04) \, (1) = 59 \, \text{lbs/day} \\ & \text{HWI}_{\text{L}(\text{Phenol})} = 8.34 \, (7.04) \, (50) = 2936 \, \text{lbs/day} \\ & \text{HWI}_{\text{L}(\text{Penta})} = 8.34 \, (7.04) \, (0.95) = 56 \, \text{lbs/day} \end{aligned}$$

 $(4)\,C_{\text{INH}}$ 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."

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VIII.

Limiting Case Summary Table

 $\begin{array}{l} \text{If AWQC} < \text{HWI}_{\text{L}} \\ \text{L}_{\text{C}} = \text{AWQC} \end{array}$

 $\begin{array}{ll} \text{If } \text{HWI}_{\text{L}} < \text{AWQC} \\ \text{L}_{\text{C}} = \text{HWI}_{\text{L}} \end{array}$

	!	Acute	Chronic	Acute	Chronic	1	$BG_{L} < L_{C}$ Chronic
	HWI_{L}	AWQC	AWQC	$\Gamma_{\!\scriptscriptstyle m C}$	$\Gamma_{\!\scriptscriptstyle m C}$	BG_{L}	Pass/
<u>Parameter</u>	<u>lbs/day</u>	1bs/day	1bs/day	1bs/day	<u>lbs/day</u>	1bs/day	Fail
Arsenic	9	246	130	9	9	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

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Kerr-McGee Rationale (Continued)
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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 <u>Concentration Limit Method Based on Industrial Contributory Flow</u> method as described in EPA <u>Guidance Manual on the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program.</u>

Equations: $P_{AI} = (L_C, lbs/day - BG_L, lbs/day) \underline{Q}_I, MGD$ Q_T, MGD

 C_{ALLOW} , mg/l = P_{AI} , lbs/day 8.34 (Q_I, 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 $L_c = \text{Limiting Case Loading}$

 $BG_{t} = Background Loading$

Acute Calculations:

Arsenic $P_{AI} = (6 - 0.18)(0.065/0.065) = 5.82 \text{ lbs/day}$ $C_{ALLOW} = 5.82/(8.34 \times 0.065) = 10.74 \text{ mg/l}$

Copper $P_{AI} = (25 - 1.93)(0.065/(0.065 + 0.036 + 0.00145 + 0.0442))$ = 10.23 lbs/day $C_{ALLOW} = 10.23/(8.34 \times 0.065) = 18.87 \text{ mg/l}$

Chromium $P_{AI} = (33 - 1.71)(0.065/(0.065 + 0.036 + 0.0442))$ = 14.01 lbs/day $C_{ALLOW} = 14.01/(8.34 \times 0.065) = 25.84 \text{ mg/l}$

Phenol $P_{AI} = (275 - 48.77)(0.065/0.065) = 464.23 \text{ lbs/day}$ $C_{ALLOW} = 464.23/(8.34 \times 0.065) = 856.35 \text{ mg/l}$

Penta $P_{AI} = (1.67 - 0.0)(0.065/0.065) = 1.67 \text{ lbs/day}$ $C_{ALLOW} = 1.67/(8.34 \times 0.065) = 3.08 \text{ mg/l}$

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July 1, 2000

Chronic Calculations:

Arsenic $P_{AI} = (6 - 0.18)(0.065/0.065) = 5.82 lbs/day$ $C_{ALLOW} = 5.82/(8.34 \times 0.065) = 10.74 \text{ mg/l}$ $P_{AI} = (18 - 1.93)(0.065/(0.065 + 0.036 + 0.00145 + 0.0442))$ Copper = 7.12 lbs/day $C_{ALLOW} = 7.12/(8.34 \times 0.065) = 13.14 \text{ mg/l}$ Chromium $P_{AI} = (22 - 1.71)(0.065/(0.065 + 0.036 + 0.0442))$ = 9.08 lbs/day $C_{ALLOW} = 9.08/(8.34 \times 0.065) = 16.76 \text{ mg/l}$ Phenol $P_{AI} = (175 - 48.77)(0.065/0.065) = 126.23 lbs/day$ $C_{ALLOW} = 126.23/(8.34 \times 0.065) = 232.85 \text{ mg/l}$ Penta $P_{AI} = (1.05 - 0.0)(0.065/0.065) = 1.05 lbs/day$ $C_{ALLOW} = 1.05/(8.34 \times 0.065) = 1.94 \text{ mg/l}$

X. Summary Table

	BG _{CONC} Domestic ⁽⁵⁾		e Limiting	Max. Concen. Listed From	Part 429 Categorical
<u>Parameter</u>	<u>Concentration</u>	<u>Acute</u>	Chronic	Application, ppm	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

	Monthly	Average	Monthly M	aximum
<u>Parameter</u>	Lbs/day	mq/l	Lbs/day	mq/l
Flow			0.075 MGE	
Oil & Grease		Report		59
Total Phenols	32.6	52	48.8	78

Page 8
Kerr-McGee Rationale (Continued)
July 1, 2000

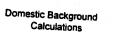
	Annual Av <u>Lbs/day</u>	/erage mg/l	Annual Ma <u>Lbs/day</u>	ximum mg/l
Penta	0.744	1.19	1.12	1.79
Chromium		Report	1.48	2.36
Copper		Report	1.85	2.95
Arsenic		Report	1.48	2.36

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.



A



COLUMBUS POTW (MS0023868)

	Qpo			UT	BG	Dhasal							
12/03/96	(MC	****	, ,,,,,,			Phenoi	 .	UT	В	G Silver			
	-		1000 6.2	550	6.255	(mg/L)	(lb/d)	(lb/di				UT	ВС
12/17/96	-	7.50 _{0.}	1000 6.2	550		0.000		o	•	,, (gr	. ,	(lb/d)	(lb/d
01/08/97		7.68 0.3	2000 12.8		6.2550						ND		,
01/21/97		~	5000 32.0		12.8102		0 57.6461	·		5700 ND	ND		
02/04/97	7	~	2000 12.9		32.0256	2.500	0 160.1280	,		5461 ND	ND		
02/18/97	,				12.9604		0 32.4009		160.1		ND		
03/04/97					2.5921	0.0100			32.4	1009 ND	ND		
03/18/97		_ :	0600 3.9	/32	3.9732				0.6	480 ND	ND		****
04/08/97						ND ND	1.0004		4.6	354 ND	ND	*****	
04/22/97		7.72 ND				ND	ND			ND.		******	
05/06/97		7.72 ND		******			ND			· ND	ND		
		7.67 ND	ND			ND	ND				ND	******	
05/21/97	7	7.67 ND	ND			ND	ND			· ND	ND		
						ND	ND			ND	ND	*****	*****
	8	Penta B	IG = 0.17	18 mg/L	*	Phenol BG				ND	ND	*****	
						, riciloi BG	. 0.8366						
	Qpotv			UT	20	_							
	(MGD) (lb/d)		BG	B eryllium		UT		_			
12/03/96		50 ND	(.0,0)	(lb/d)	(ib/d)	(mg/L)	(lb/d)		BG	Cadmium		UT	200
12/17/96		50 ND	ND			ND	ND	(lb/d)	(lb/d)	(mg/L)	(lb/d)		BG
01/08/97			ND			ND			190	ND	((lb/d)	(lb/d)
01/21/97	7.0		ND			ND	ND			ND		0.0085	
02/04/97			ND	******			ND			0.0100		0.0085	
02/18/97	7.1		ND			ND	ND				0.6405	5.000,	0.63
03/04/97	7.7		ND			ND	ND			ND		0.0057	
	7.9		ND			ND	ND			ND		0.0067	
03/18/97	7.9		ND			ND	ND			ND		0.0067	
04/08/97	7.7		ND		******	ND	ND	34	******	ND		0.0064	
04/22/97	7.7			100		ND	ND			ND		0.0064	
05/06/97	7.6		ND	-		ND	ND			ND			
5/21/97	7.6		ND			ND			*******	ND	34	0.0048	
	7.0	7 ND	ND			ND	ND			ND	-	0.0048	
						טזי	ND			0.0100		0.0097	
											0.6397	0.0097	0.6300
	4 . 1									Cd BG =	0.0099		
	Qpotw	Cyanide		UT	00								
10/00:0	(MGD)	(mg/L)	(lb/d)		BG CH	nromium		UT	-				
2/03/96	7.50		ND	(lb/d)	(lb/d)	(mg/L)	(lb/d)		BG	Copper		UT	BG
2/17/96	7.50			0.0035		ND		(lb/d)	(lb/d)	(mg/L)	414.4 15		- 66
1/08/97							ND		(,	(#19/C)	(ID/d)	/ib/d\	
.,00,0,	7.68		ND	0.0035			ND	0.0116			(lb/d)	(lb/d)	(lb/d)
1/21/97	7.68 7.68	ND	ND	0.0035 0.0019		ND	ND	0.0116 0.0116		0.0600	3.7530	0.0206	(lb/d)
1/21/97	7.68	ND ND	ND -			ND ND	ND ND			0.0600 0.0400	3.7530 2.5020	0.0206 0.0206	(lb/d) 3.7324
1/21/97 2/04/97	7.68 7.77	ND ND 0.0200	ND	0.0019 0.0019		ND ND ND	ND	0.0116 0.0181		0.0600 0.0400 0.0600	3.7530 2.5020 3.8431	0.0206	(lb/d) 3.7324 2.4814
1/21/97 2/04/97 2/18/97	7.68 7.77 7.77	ND ND	ND ND 1.2960	0.0019 0.0019 0.0036	1.2924	ND ND ND ND	ND ND	0.0116 0.0181 0.0181		0.0600 0.0400 0.0600 0.0200	3.7530 2.5020	0.0206 0.0206 0.0200	(lb/d) 3.7324 2.4814 3.8231
1/21/97 2/04/97 2/18/97 3/04/97	7.68 7.77 7.77 7.94	ND ND 0.0200	ND ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036		ND ND ND	ND ND ND ND	0.0116 0.0181 0.0181 0.0330		0.0600 0.0400 0.0600 0.0200 0.0100	3.7530 2.5020 3.8431	0.0206 0.0206 0.0200 0.0200	(lb/d) 3.7324 2.4814 3.8231 1.2610
1/21/97 2/04/97 2/18/97 3/04/97 3/18/97	7.68 7.77 7.77	ND ND 0.0200 ND	ND ND 1.2960 ND ND	0.0019 0.0019 0.0036 0.0036 0.0018	1.2924	ND ND ND ND	ND ND ND ND ND	0.0116 0.0181 0.0181 0.0330 0.0330		0.0600 0.0400 0.0600 0.0200 0.0100 0.0500	3.7530 2.5020 3.8431 1.2810	0.0206 0.0206 0.0200 0.0200 0.0227	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253
1/21/97 2/04/97 2/18/97 3/04/97 5/18/97 /08/97	7.68 7.77 7.77 7.94	ND ND 0.0200 ND ND ND	ND ND 1.2960 ND ND ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018	1.2924	ND ND ND ND ND ND	ND ND ND ND ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334		0.0600 0.0400 0.0600 0.0200 0.0100	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227	(ib/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174
//21/97 //04/97 //18/97 //04/97 //18/97 //08/97	7.68 7.77 7.77 7.94 7.94 7.72	ND ND 0.0200 ND ND ND ND	ND 1.2960 ND ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003	1.2924	ND ND ND ND ND ND 0.0300	ND ND ND ND ND ND 1.9866	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334		0.0600 0.0400 0.0600 0.0200 0.0100 0.0500	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418
1/21/97 2/04/97 2/18/97 2/18/97 2/18/97 2/18/97 2/2/97	7.68 7.77 7.77 7.94 7.94 7.72 7.72	ND ND 0.0200 ND ND ND ND ND	ND ND 1.2960 ND ND ND ND ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003	1.2924	ND ND ND ND ND ND 0.0300 ND	ND ND ND ND ND ND 1.9866 ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444		0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0600	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528
1/21/97 2/04/97 2/18/97 3/04/97 3/18/97 1/08/97 /22/97 /06/97	7.68 7.77 7.77 7.94 7.94 7.72 7.72 7.67	ND ND 0.0200 ND ND ND ND ND ND	ND ND 1.2960 ND ND ND ND ND ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003	1.2924	ND ND ND ND ND ND 0.0300 ND ND	ND ND ND ND ND ND 1.9866 ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334		0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0600 0.0300	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418
1/21/97 2/04/97 2/18/97 2/18/97 2/18/97 2/18/97 2/2/97 2/06/97	7.68 7.77 7.77 7.94 7.94 7.72 7.72	ND ND 0.0200 ND ND ND ND ND	ND ND 1.2960 ND ND ND ND ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003	1.2924	ND ND ND ND ND ND 0.0300 ND ND ND	ND ND ND ND ND ND 1.9866 ND ND ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444	1.9532	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0600 0.0300	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127
/21/97 /04/97 /18/97 /18/97 /18/97 /08/97 /22/97	7.68 7.77 7.77 7.94 7.94 7.72 7.72 7.67	ND ND 0.0200 ND ND ND ND ND ND	ND ND 1.2960 ND ND ND ND ND ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003	1.2924	ND ND ND ND ND ND 0.0300 ND ND	ND ND ND ND ND ND 1.9866 ND ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.0444 0.1798	1.9532	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0600 0.0300 0.0300	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9190	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127
1/21/97 2/04/97 2/18/97 2/18/97 2/18/97 2/18/97 2/19/97 2/19/97	7.68 7.77 7.77 7.94 7.94 7.72 7.72 7.67	ND ND 0.0200 ND ND ND ND ND ND	ND ND 1.2960 ND ND ND ND ND ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.0048	1.2924	ND N	ND ND ND ND ND ND 1.9866 ND ND ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.0444 0.1798 0.1798	1.9532	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0600 0.0300	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0224 0.0204 0.0188 0.0188	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127
1/21/97 2/04/97 2/18/97 3/04/97 3/18/97 1/08/97 /22/97 /06/97	7.68 7.77 7.77 7.94 7.94 7.72 7.72 7.67	ND ND 0.0200 ND ND ND ND ND ND	ND ND 1.2960 ND ND ND ND ND ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.0048	1.2924	ND N	ND ND ND ND ND ND 1.9866 ND ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.0444 0.1798 0.1798	1.9532	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0600 0.0300 0.0300	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9190 0.6397	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188 0.0188 0.1820	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.9127
1/21/97 2/04/97 2/18/97 2/18/97 3/18/97 3/18/97 3/18/97 3/18/97 3/18/97 3/19/97	7.68 7.77 7.77 7.94 7.72 7.72 7.67 7.67	ND ND 0.0200 ND ND ND ND ND ND ND ND ND	ND ND 1.2960 ND ND ND ND ND ND ND ND ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND N	ND ND ND ND ND ND 1.9866 ND ND ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.0444 0.1798 0.1798	1.9532	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0600 0.0300 0.0300 0.0300	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9190	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188 0.0188 0.1820	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.9127
1/21/97 2/04/97 2/18/97 2/18/97 3/04/97 3/18/97 3/08/97 3/22/97 3/06/97 3/21/97	7.68 7.77 7.77 7.94 7.94 7.72 7.72 7.67 7.67	ND ND 0.0200 ND	ND ND 1.2960 ND ND ND ND ND ND ND ND ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND N	ND ND ND ND ND 1.9866 ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.0444 0.1798 0.1798	1.9532	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0600 0.0300 0.0300 0.0300 0.0100	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9190 0.6397	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188 0.0188 0.1820	(lb/d) 3.732- 2.4814 3.823: 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.9127
1/21/97 2/04/97 2/18/97 2/18/97 3/18/97 3/18/97 3/18/97 3/18/97 3/18/97 3/18/97	7.68 7.77 7.77 7.94 7.94 7.72 7.72 7.67 7.67	ND ND 0.0200 ND	ND ND 1.2960 ND ND ND ND ND ND ND ND ND ND ND ND ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND N	ND ND ND ND ND 1.9866 ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0600 0.0300 0.0300 0.0300 0.0300 0.0300	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9190 0.6397	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188 0.0188 0.1820 0.1820	(lb/d) 3.732- 2.481- 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.9127 1.7370 0.4577
1/21/97 1/04/97 1/18/97 1/18/97 1/18/97 1/08/97 1/08/97 1/22/97 1/06/97 1/21/97	7.68 7.77 7.77 7.94 7.94 7.72 7.67 7.67 Qpotw (MGD) 7.50	ND ND 0.0200 ND	ND ND 1.2960 ND ND ND ND ND ND ND ND ND ND ND ND ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND N	ND ND ND ND 1.9866 ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.0444 0.1798 0.1798	1.9532	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0600 0.0300 0.0300 0.0300 0.0300 0.0300	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9390 0.6397	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0224 0.0204 0.0188 0.1820 0.1820	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.7370 0.4577
1/21/97 2/04/97 2/18/97 2/18/97 3/18/97 3/18/97 3/22/97 3/21/97 3/96	7.68 7.77 7.77 7.94 7.94 7.72 7.72 7.67 7.67 Qpotw (MGD) 7.50 7.50	ND ND 0.0200 ND	ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND N	ND ND ND ND 1.9866 ND ND ND ND ND 0.0296 mg/L	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0600 0.0300 0.0300 0.0300 0.0300 0.0300	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9315 0.6397 0.0335 mg	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188 0.0188 0.1820 0.1820	(lb/d) 3.732- 2.481- 3.823- 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.9127 1.7370 0.4577
1/21/97 2/04/97 2/18/97 2/18/97 3/18/97 3/18/97 3/22/97 3/26/97 3/21/97	7.68 7.77 7.77 7.94 7.94 7.72 7.67 7.67 7.67 Qpotw (MGD) 7.50 7.50 7.68	ND ND 0.0200 ND	ND ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND N	ND ND ND ND 1.9866 ND ND ND ND ND ND ND ND ND 0.0296 mg/L	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0600 0.0300 0.0300 0.0300 0.0300 0.0100 Cu BG =	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9315 0.6397 0.0335 mg	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0224 0.0204 0.0188 0.1820 0.1820	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.7370 0.4577
1/21/97 2/04/97 2/18/97 1/18/97 1/18/97 1/08/97 1/22/97 1/06/97 1/21/97	7.68 7.77 7.94 7.94 7.72 7.67 7.67 7.67 Qpotw (MGD) 7.50 7.50 7.68 7.68	ND ND 0.0200 ND	ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND N	ND ND ND ND 1.9866 ND ND ND ND 0.0296 mg/L	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0300 0.0300 0.0300 0.0300 0.0100 Cu BG =	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9315 1.9315 0.6397 0.0335 mg	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188 0.0188 0.1820 0.1820	(lb/d) 3.732- 2.481- 3.823- 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.9127 1.7370 0.4577
1/21/97 2/04/97 2/18/97 3/04/97 3/18/97 3/18/97 3/18/97 3/22/97 3/20/97 3/96 17/96 08/97 21/97	7.68 7.77 7.94 7.94 7.72 7.67 7.67 7.67 7.67 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ND ND 0.0200 ND	ND ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND ND ND ND ND 0.0300 ND ND ND ND ND ND ND ND ND ND	ND ND ND ND 1.9866 ND ND ND ND ND ND ND ND ND 0.0296 mg/L	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532 	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0500 0.0300 0.0300 0.0300 0.0100 Cu BG = Vickel (mg/L) 0.0900 ND ND	3.7530 2.5020 3.8431 1.2810 0.66480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9190 0.6397 0.0335 mg	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188 0.0188 0.1820 0.1820	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.9127 1.7370 0.4577
1/21/97 2/04/97 2/18/97 3/04/97 3/18/97 3/18/97 3/18/97 3/22/97 3/20/97 3/21/97 03/96 03/96 03/96 08/97 21/97 44/97 8/97	7.68 7.77 7.94 7.94 7.72 7.67 7.67 7.67 Qpotw (MGD) 7.50 7.50 7.68 7.68	ND ND 0.0200 ND	ND ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND ND ND ND ND 0.0300 ND ND ND ND ND ND ND ND ND ND	ND ND ND ND 1.9866 ND ND ND ND ND ND 0.0296 mg/L	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532 	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0500 0.0300 0.0300 0.0300 0.0100 Cu BG = Vickel (mg/L) 0.0900 ND ND	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9315 1.9315 0.6397 0.0335 mg	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188 0.0188 0.1820 0.1820	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.9127 1.7370 0.4577
1/21/97 2/04/97 2/18/97 3/18/97 3/18/97 3/18/97 1/22/97 1/22/97 1/21/97 03/96 17/96 08/97 21/97 8/97	7.68 7.77 7.94 7.94 7.72 7.67 7.67 7.67 7.67 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ND ND 0.0200 ND	ND ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND ND ND ND ND ND ND ND ND ND	ND N	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532 	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0500 0.0300 0.0300 0.0300 0.0100 Cu BG = Vickel (mg/L) 0.0900 ND ND	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9190 0.6397 0.0335 mg	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188 0.0188 0.1820 0.1820	(lb/d) 3.7324 2.4814 3.8231 1.2630 0.6253 3.2174 0.6418 3.9528 1.9127 1.9127 1.7370 0.4577
1/21/97 2/04/97 2/18/97 3/04/97 3/18/97 3/18/97 3/08/97 3/22/97 3/06/97 3/21/97 03/96 17/96 08/97 21/97 04/97 8/97	7.68 7.77 7.94 7.94 7.92 7.72 7.67 7.67 7.67 Qpotw (MGD) 7.50 7.68 7.68 7.77 7.77	ND ND 0.0200 ND	ND ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND N	ND ND ND 1.9866 ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532 	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0500 0.0300 0.0300 0.0300 0.0100 Cu BG = Vickel (mg/L) 0.0900 ND ND	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9315 0.6397 0.0335 mg	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188 0.0188 0.1820 0.1820 g/L UT (lb/d)	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.7370 0.4577
1/21/97 2/04/97 2/18/97 3/04/97 1/18/97 1/18/97 1/22/97 1/06/97 1/21/97 03/96 17/96 08/97 14/97 14/97 14/97 14/97 14/97	7.68 7.77 7.77 7.94 7.94 7.72 7.67 7.67 7.67 Qpotw (MGD) 7.50 7.68 7.68 7.68 7.77 7.77 7.94	ND ND O.0200 ND	ND ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND N	ND ND ND 1.9866 ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532 	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0600 0.0300 0.0300 0.0300 0.0100 Cu BG = Vickel (mg/L) 0.0900 ND ND ND ND ND	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9315 0.6397 0.0335 mg	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188 0.1820 0.1820 g/L UT (lb/d)	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.7370 0.4577
1/21/97 2/04/97 2/18/97 3/04/97 1/18/97 1/18/97 1/06/97 1/21/97 03/96 17/96 08/97 21/97 4/97 8/97 8/97 8/97	7.68 7.77 7.77 7.94 7.94 7.72 7.67 7.67 7.67 7.50 7.50 7.68 7.68 7.77 7.77 7.94 7.94 7.72	ND ND 0.0200 ND	ND ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND N	ND N	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532 	0.0600 0.0400 0.0600 0.0200 0.0200 0.0100 0.0500 0.0100 0.0600 0.0300 0.0300 0.0300 0.0100 Cu BG = Vickel (mg/L) 0.0900 ND ND ND ND ND ND ND ND ND	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9315 0.6397 0.0335 mg	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188 0.1820 0.1820 g/L UT (lb/d)	(lb/d) 3.732- 2.481- 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.7370 0.4577 BG (lb/d) 5.6295
1/21/97 2/04/97 2/18/97 3/04/97 3/04/97 3/04/97 3/08/97 3/22/97 3/96 17/96 17/96 18/97 14/97 8/97 8/97 8/97 8/97	7.68 7.77 7.94 7.94 7.67 7.67 7.67 7.67 7.67 7.50 7.50 7.50 7.68 7.68 7.77 7.77 7.77 7.77	ND N	ND ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND N	ND ND ND 1.9866 ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532 	0.0600 0.0400 0.0600 0.0200 0.0200 0.0100 0.0500 0.0100 0.0300 0.0300 0.0300 0.0300 0.0300 0.0100 Cu BG = Vickel (rmg/L) 0.0900 ND	3.7530 2.5020 3.8431 1.2810 0.66480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9315 1.9190 0.6397 0.0335 mg (lb/d) 5.6295 ND ND ND ND ND ND ND ND	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0204 0.0188 0.0188 0.1820 0.1820 g/L UT ((lb/d)	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.7370 0.4577
1/21/97 2/04/97 2/18/97 1/18/97 1/18/97 1/18/97 1/08/97 1/22/97 1/06/97 1/21/97	7.68 7.77 7.94 7.94 7.72 7.67 7.67 7.67 7.67 7.50 7.50 7.68 7.77 7.77 7.94 7.72 7.72 7.72	ND N	ND ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0003 0.0003 0.00048 0.0048 UTT (lb/d)	1.2924	ND N	ND N	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532 	0.0600 0.0400 0.0600 0.0200 0.0200 0.0100 0.0500 0.0300 0.0300 0.0300 0.0300 0.0300 0.0100 Cu BG = Vickel (rmg/L) 0.0900 ND	3.7530 2.5020 3.8431 1.2810 0.66480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9397 0.6397 0.0335 mg (lb/d) 5.6295 ND ND ND ND ND ND ND ND ND ND ND ND ND	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0224 0.0204 0.0188 0.0188 0.1820 0.1820 g/L UT ((lb/d)	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.7127 0.4577 BG (lb/d) 5.6295
1/21/97 2/04/97 2/18/97 1/18/97 1/18/97 1/18/97 1/08/97 1/22/97 1/06/97 1/21/97	7.68 7.77 7.94 7.94 7.67 7.67 7.67 7.67 7.67 7.50 7.50 7.50 7.68 7.68 7.77 7.77 7.77 7.77	ND N	ND ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND N	ND ND ND 1.9866 ND	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532 	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0300 0.0300 0.0300 0.0300 0.0300 0.0100 Cu BG = Nickel (mg/L) 0.0900 ND	3.7530 2.5020 3.8431 1.2810 0.66480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9315 1.9190 0.6397 0.0335 mg (lb/d) 5.6295 ND ND ND ND ND ND ND ND	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0224 0.0204 0.0188 0.0188 0.1820 0.1820 g/L UT ((lb/d)	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.9127 1.7370 0.4577
1/21/97 1/04/97 1/18/97 1/18/97 1/18/97 1/08/97 1/22/97 1/06/97 1/21/97 1/21/97 1/96 1/97	7.68 7.77 7.94 7.94 7.72 7.67 7.67 7.67 7.67 7.50 7.50 7.68 7.77 7.77 7.94 7.72 7.72 7.72	ND N	ND ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0003 0.0003 0.00048 0.0048 UTT (lb/d)	1.2924	ND N	ND N	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532 	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0600 0.0300 0.0300 0.0300 0.0300 0.0300 ND	3.7530 2.5020 3.8431 1.2810 0.66480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9397 0.6397 0.0335 mg (lb/d) 5.6295 ND ND ND ND ND ND ND ND ND ND ND ND ND	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0188 0.0188 0.1820 0.1820 g/L	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.7370 0.4577 BG (lb/d) 5.6295
1/21/97 1/04/97 1/18/97 1/18/97 1/18/97 1/08/97 1/22/97 1/06/97 1/21/97 1/21/97 1/96 1/97	7.68 7.77 7.94 7.94 7.72 7.67 7.67 7.67 7.67 7.50 7.50 7.68 7.77 7.77 7.94 7.72 7.72 7.72	ND N	ND ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND N	ND N	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532 	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0300 0.0300 0.0300 0.0100 Cu BG = Nickel (mg/L) 0.0900 ND	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9190 0.6397 0.0335 mg (lb/d) 5.6295 ND ND ND ND ND ND ND ND ND ND ND ND ND	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0188 0.0188 0.1820 0.1820 g/L	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.7370 0.4577
1/21/97 2/04/97 2/18/97 3/04/97 3/18/97 3/18/97 4/08/97 4/22/97 6/06/97	7.68 7.77 7.94 7.94 7.72 7.67 7.67 7.67 7.67 7.50 7.50 7.68 7.77 7.77 7.94 7.72 7.72 7.72	ND N	ND ND 1.2960 ND	0.0019 0.0019 0.0036 0.0036 0.0018 0.0003 0.0003 0.00048 0.0048	1.2924	ND N	ND N	0.0116 0.0181 0.0181 0.0330 0.0330 0.0334 0.0334 0.0444 0.1798 0.1798	1.9532 	0.0600 0.0400 0.0600 0.0200 0.0100 0.0500 0.0100 0.0300 0.0300 0.0300 0.0100 Cu BG = Nickel (mg/L) 0.0900 ND	3.7530 2.5020 3.8431 1.2810 0.6480 3.2401 0.6622 3.9732 1.9315 1.9315 1.9315 0.6397 0.0335 mg (lb/d) 5.6295 ND ND ND ND ND ND ND ND ND ND ND ND ND	0.0206 0.0206 0.0200 0.0200 0.0227 0.0227 0.0204 0.0188 0.0188 0.1820 0.1820 g/L	(lb/d) 3.7324 2.4814 3.8231 1.2610 0.6253 3.2174 0.6418 3.9528 1.9127 1.7370 0.4577 BG (lb/d) 5.6295

Domestic	Back	groun	d
Calculat			

12/03/96 12/17/96 01/08/97 01/21/97 02/04/97 02/18/97 03/04/97 03/18/97 04/08/97 04/08/97 05/06/97	(MGD) 7.50 7.66 7.66 7.77 7.77 7.94 7.94 7.72 7.72 7.67	14.0000 5.2000 11.6000 7 18.0000 7 12.4000 7 7.6000 19.2000 13.6000 2 4.8000 12.8000	(lb/d) 6.4000 12.4000 6.8000 6.8000 2.0000 2.4000 4.8000 0.8000 7.6000 0.8000	UT (lb/d)	BG (lb/d) 6.4000 12.4000 6.8000 6.8000 2.0000 2.4000 4.8000 0.0500 0.8000 7.6000	Lead (mg/L) ND	(Ib/d) ND	UT (lb/d)	BG (lb/d)	Antimony (mg/L) ND	(Ib/d) ND ND ND ND ND ND ND ND ND	UT (lb/d)	BG (lb/d)
12/03/96 12/17/96 01/08/97 01/21/97 02/04/97 02/18/97 03/18/97 03/18/97 04/08/97 04/22/97 05/06/97	Qpotw (MGD) 7.50 7.68 7.68 7.77 7.77 7.94 7.94 7.72 7.72 7.67	Selenium (mg/L) ND	(Ib/d) ND	UT (lb/d)	BG (lb/d)	Thallium (mg/L) ND	(lb/d) ND	UT (lb/d)	BG (lb/d)	Zinc (mg/L) 0.0900 0.1000 0.1400 0.0500 0.1900 0.1100 0.0600 0.0600 0.0600 0.0600 0.0500 0.0500 0.0600	(ib/d) 5.6295 6.2550 8.9672 3.2026 12.3123 7.1282 3.9732 3.9732 3.8631 3.8631 3.1984 3.8381	UT (lb/d) 0.0548 0.0548 0.0448 0.0548 0.0548 0.0589 0.0589 0.0387 0.0387 0.2897	BG (lb/d) 5.5747 6.2002 8.9224 3.1578 12.2575 7.0734 3.9143 3.9143 3.8244 2.9087 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



Removal Efficiency

COLUMBUS POTW (MS0023868)

	Penta		Phenol		Silver							
	influent	effluent	influent	effluent			Arsenio		B eryllius	m	Code	
12/03/96	0.100				influent	effluent	influent	effluent	influent	effluent	Cadmium	
12/17/96	0.100			0.3000		ND	ND	ND	ND	ND	influent	effluent
01/08/97	0.200			0.7000		ND	ND	ND	ND	ND	ND	ND
01/21/97	0.500		0.000	0.6000		ND	ND	ND	ND		ND	ND
02/04/97	0.200	- 0.1000		0.6000		ND	ND	ND	ND	ND	0.010	
02/18/97	0.040			0.9000		ND	ND	ND		ND	ND	ND
03/04/97	0.040		0.0.00	0.0000	ND	ND.	ND	ND	ND	ND	ND	ND
03/18/97	ND U.UGU	- 0.0100	0.0700	0.0000	IND	ND	ND	ND	ND	ND	ND	ND
04/08/97	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
04/22/97		ND		ND	ND	ND	ND		ND	ND	ND	ND
05/06/97	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
001Z 1/3/	ND	ND	ND I	ND	ND	ND	ND	ND	ND	ND	ND	ND
SUM						.,,	NU	ND	ND	ND	0.07100	
REM EFF	1.1000	0000	5.3800	2.2000								
INCINI EFF		0.2455		0.5911							0.0200	0.0100
												0.5000
												0.0000
	Cyanide		Chromium		Copper		Han Ob a	. "				
12/03/96	influent	effluent			influent	effluent	Hex Chro		Mercury		Nickel	
12/17/96	ND			ID	0.0600		influent	effluent	influent	effluent	influent	effluent
	ND		ND N	ID	0.0400			ND	ND	ND	0.0900	0.0600
01/08/97	ND	ND .		D	0.0600	0.0.00		ND	ND I	ND	ND S.CSSS	ND
01/21/97	ND	ND		D	0.0200			ND	0.0004	0.0000		ND
02/04/97	0.0200	0.0000	ND N		0.0200		ND	ND	0.0004	0.0000		ND
02/18/97	ND		_	D.				ND	0.0006	0.0000		ND
03/04/97	ND		ND N	_	0.0500	0.0300		ND	ND	ND	ND	
03/18/97	ND	ND	0.0300	0.0000	0.0100			ND	ND	ND	ND	ND
04/08/97	ND	ND a	ND O		0.0600			ND	ND	ND	ND	ND
04/22/97	ND		VD N		0.0300	0.0100		. ND	ND	ND	0.0900	ND
05/06/97	ND	0.0200 N	VD N		0.0300	0.0200	ND	ND	ND	ND		0.0000
05/21/97	ND		ID N	-	0.0300	0.0000	ND	ND	ND	ND -	117	ND
		,,,	io Ni	,	0.0100	0.0000	ND -	ND	ND	1. II		ND
SUM	0.0200	0.0000	0.0300							NU	ND	ND
REM EFF	0.0200	1.0000	0.0300	0.0000	0.4100	0.1200			0.0014	0.0000		
		1.0000		1.0000		0.7073			0.0014	0.0000	0.1800	0.0600
										1.0000		0.6667
	O&G		ead									
	. : -			, A	ntimony		Selenium		Thallium			
12/03/96	19.6000	6.4000 N				effluent	influent	effluent	influent		Zinc	
12/17/96	14.0000	12.4000 N	,,			ND	ND	ND				ffluent
01/08/97	5.2000			• • • • • • • • • • • • • • • • • • • •	_	ND	ND	ND :	_	ND	0.0900	0.0200
01/21/97	11.6000	12.8000 N	_	, ,	D		ND	ND	112	ND	0.14000	0.0400
02/04/97	18.0000	6.8000 N			D i		ND	ND	112	ND	0.1400	0.0400
02/18/97	12.4000	6.8000 NI		N.	D		ND	ND	- 00	ND	0.0500	0.0400
03/04/97	7.6000	2.0000 NI		N!	D (ND	ND		ND	0.11900	0.0400
03/18/97	19.2000	2.4000 NO		N			ND	ND ND		ND	0.11100	0.0400
04/08/97		4.8000 NO		N	_		ND	ND ND		ND	0.0600	0.0500
04/22/97	13.6000	0.0000 NE		NE			ND			ND	0.0600	0.0600
05/06/97	4.8000	0.8000 NC		NE		:= .	ND	ND		ND S	0.09600	0.0200
05/21/97	12.8000	7.6000 NE		NE	•	•	ND ND	ND		ND	0.0600	0.0300
	18.4000	0.8000 NE	ON O	NE				ND		ND	0.0500	0.0200
SUM					- r	ין טי	ND	ND	ND I	ND	0.0000	0.0300
REM EFF	152.0000	50.8000										0.0000
IVEN ELL		0.6658									1.0300	0.4300
												0.4300

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.

PERMIT #: MSP	090021 TRANSACTION CODE: (N=NEW C=CHANGE)	IF THIS IS A REISSUANCE, DID PERMIT LIMITS CHANGE (Y/N) ?
FACILITY NAME:	Kerr-mcGee Chemicals	
COGNIZANT OFFICIAN	I: mr. Ronald P. murphe	y a plant manage
PHONE: 662-3	28-7551 CITY: Columbus	COUNTY
SIC CODE: 2491	TYPE OF APPLICATION: 2P	FACILITY OWNERSHIP: PRT
TYPE OF PERMIT: S	FEDERAL GRANT : 92-500 ONLY "\$"	WATER QUALITY LIMITS (Y/N)
FACILITY INACTIVE CODE	FACILITY INACTIVE DATE	(Use <u>ONLY</u> if you are inactivating an entire facility. Otherwise use OFLG
SUB-REGION: NO	ENGINEER: (initials) AVERAGE DESIGNATION	
	Facility Data Screen #2 (F)	AC2)
	90021	
PERMIT #: M S	TRANSACTIO (N=NEW C=C	N CODE: HANGE)
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
WATERS COLUM		
Facility Type:	(ms0056472)	
RDF1 p		ydrograph Controlled ultiple Lagoon on-Contact Cooling
I = Industrial	$\mathbf{AC} = \mathbf{Action bolder}$	II Site Disposal
<pre>X = Ind Non Report P = Pretreatment</pre>	AS = Activated Sludge OD = O	verland Flow Kidation Ditch
<pre>M = Municipal D = Domestic</pre>	AN = Anaerobic Lagoon PR = 2	nysical Chemistry
N = Dom Non Report	API = API Separator AW = Artificial PS = Pr	Adjustment cimary Sedimentation
F = Federal	CC = Contact Cooling RO = Re	ecycle and Reuse Everse Osmosia
Toxic and Bio-	CT = Cooling Tower	tating Biological Contractor
Assay Code:	DW = Deepwell DF = Diffuser SS = Se	condary Sedimentation
RDF2	EOP = End of Pipe	ray Irrigation atewide
T - Tout-		ickling Filter
T = Toxic A = Acute C = Chronic		
	<u></u>	

Facility Address Screen (FACA)



* Primary DMR Mailing Address
Facility Name Kerr-mcGee Chemical LLC
Address Line1 2300 14+h Avenue North
Address Line2
CITY COlumbus ST ms ZIP 39701
1lternate non a co
Alternate DMR Mailing Address
Facility Name
Address Linel
Address Line2
CITY ST ZIP
Facility Location Address
Facility Name
Address Linel
Address Line2
CITY ST ZIP
Telephone 6 6 2 - 3 2 8 - 7551

Permit Tracking Screen (PTP
PERMIT # : m 5 P 0 9 0 0 2 1
Permit Issuance: TRANSACTION CODE : (N=NEW C=CHANGE)
PERMIT TRACKING EVENT CODE : P 4 0 9 9
SCHEDULED DATE :
ACTUAL DATE :
Permit Expiration: TRANSACTION CODE: (N=NEW C=CHANGE)
PERMIT TRACKING EVENT CODE : P 5 0 9 9
SCHEDULED DATE : 07-31-05
ACTUAL DATE : 07-31-05

Per Facility Geographic Data Screen (FAGD

PERMIT # : TRANSACTION CODE : MS P 0 С LATITUDE (FLAT) LONGITUDE (FLON) LAT/LONG METHOD (FLLM) A A = Map Interpolation 3 = Cadastral Survey B = Navigation-Quality GPS 4 = State Plan Coord System Conv C = Remote Sensing 5 = Township-Section-Range sys Conv D = Zip Code Centroid 6 = UTM Coordinates Conversion U = Unknown 7 = Raw Photo Extration 1 = Address Mapping 8 = GPS Survey 2 = Aerial Photo w/Ground Control9 = Loran-C Navigational Device LAT/LONG DATUM (FLLT) U = Unknown 1 = NAD272 = NAD83

LAT/LONG SCALE (FLLS) : 3

N = Not Applicable 3 = 24 200

N = Not Applicable 3 = 24,000 7 = 63,350 U = Unknown 4 = 25,000 8 = 63,360 1 = 15,840 5 = 62,500 9 = 250,000 2 = 20,000 6 = 63,000

LAT/LONG DESCRIPTION (FLLD) : 0 1 0 9 9

01099 = Centroid of Processing Area 02099 = Front Door of Facility

USGS HYDROLOGIC BASIN CODE (FHBC) : 03160105

M S P 0 9 0 PERMIT # : TRANSACTION CODE : (N=New C=Change) DISCHARGE NUMBER : 00 REPORT DESIGNATOR : INITIAL REPORT DATE : REPORT UNITS : NUMBER OF UNITS IN : REPORT PERIOD TOTAL NUMBER OF UNITS DUE : INITIAL STATE SUBMISSION DATE: STATE SUBMISSION UNIT : M PIPE DESCRIPTION : SEASONAL DMR PRINTING INDICATORS : Y Y Y Y Y Y Y YY INITIAL LIMIT DATES : START END INTERIM LIMIT DATES : START END FINAL LIMIT DATES : START END PIPE INACTIVE CODE : PIPE INACTIVE DATE : AGENCY REVIEWER (ENGINEER) : (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)

Outfall General Data Screen #1

1 7 4 7

WAR 200 Received Received FA

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 1	
1. Name of Applicant: Kern	C-McGee Chemical LLC
Fore	est Products Division
2. Mailing Address of Appli	cant:
Number & Street (P. O. Box)	: 2300 14 th Avenue North
City: Columbus State	· MC
Telephone Number: (601) 32	
3. Applicant's Authorized Ac	
Name and Title: Nick Bock	
Number & Street (P. O. Box):	Kerr-McGee Chemical LLC, P.O.Box 25861
City: Oklahoma City State	: OK 7:50 73105
Telephone Number: (405) 270	73125 Zip: 73125
4. Facilities Location:	omdii mbockgkmg.com
Number & Street (P. O. Box):	2300 14 th Avenue North
City: Columbus, MS	County: Lowndes
Latitude (Deg., Min., Sec.):	33° 32' 30"
	88° 24' 32"

5. 1	Nature of B	usine	ss: W	lood 1	Preser	win			-
6. j	Location Mapapplication	p: (P) <u>Lo</u>	roui de			1 3		this	
7. 5	SIC CODES (4-dig	it, in	orde	rof	ori	oritul		
		FIRST						SECO	
2491	Wood Pre	servi	.ng		NA		NA	う正しし	ND
	C. :	THIRD				9 747	(Property)	FOUR	
NA	NA				NA NA		NA	LOOK	I H
8. N	ame of POTW astewater:	Rece	iving		City	7 01	E Columb	us,	POTW
	er & Street	(P.	O. Box) :	168 Yor	kvill	e Road We	st	
City				(County		Lownde		
9. Di	scharge Typ	pe and	d Occu	rrenc	e:		Company of the Company		
4. Ту	pe of Disch	narge	Con	t. (Contin	uou	s; If Co	antin	would
JA	Gallons	s Per	Day,	NA		177.00	tch		luous
3. Di	scharge Occ	urren	ice:	7 II YEC	D	ays	per Wee	k	
. Di	scharge Occ	urren	ce:						
	January	х	Febru	ıary	х	Ma	arch	x	April
	May	х	June		Х	Jı	ıly	x	August
	September	Х	Octob	er	x	No	vember	х	December
0. I1	Batch: A.	NA		Thou	sand	Gal	lons per	Dis	
	В.	NA			s per				
	C.	NA		Disc	harge	000	currence	per	Day
L. Ma	ximum Peric	od of	Flow:	From	1/1	./97	to	1/	31/97
					M	lont	h		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 Unregulatd Creosote Contaminated Stormwater and Other: 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 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 material	s used: Wood and Com	
ROUTE SEE SEE SEE SEE SEE SEE SEE SEE SEE S		s used: Wood and Creosote	
16. PRODUCTI	ON	· · · · · · · · · · · · · · · · · · ·	
A. Does a	un effluent guid	deline limitation promulgated by EPA un	
tne Cle			ider Section 304 of
B. Are th	X~ Yes (complet	te Item 16-B) ~ No (Go to 17)	
product	ion (or other m	n the applicable effluent guidelines e easure of operation)?	expressed in terms of
		Fixed 16-C) X~ No (Go to 17)	
C. If you measure the app	answered "yes"	to Item 16-B, list the quantity which vel of production, expressed in the text guideline, and indicate the affected	represents an actual
	STATE OF THE STATE	AGE DAILY PRODUCTION	outfalls.
		GE DAIL! PRODUCTION	2. AFFECTED OUTFALLS (list outfall numbers)
a. QUANTITY PER DAY	B. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	
NA			
	7		-

1/. 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.

+	b.No. OF ANAL-	Carrie					36		0 F	
4.INTAKE		(2) MASS						3	ale)	
	a.LONG TERM AVERAGE VALUE	(1) CONCENT-					VALUE	VALUE	VALUE	
jį		b. MASS								UNITS
3. UNITS (Specify hlant)		a. CONCENT- RATION	Mg/1	Mg/l	Mg/1	Mg/1	GPD	ς,	ů	STANDARD UNITS
	d.No. OF ANAL- YSES			1			36	1	1	36
	1 JUE 2.e)	(2) MASS						te)	ite)	
Ė.	c.LONG TERM AVRG. VALUE (if available)	(1) CONCENT- RATION			=		VALUE 25149 GPD	VALUE 60°F (estimate)	VALUE 90°F (estimate)	
2. EFFLUENT	30 E	(2) MASS		lica-			L/Mon.	ate)	ate)	MAX 7.9
2	b.MAXIMUM 30 DAY VALUE (if available)	(1) CONCENT- RATION	1		4		VALUE 977,000 Gal/Mon.	VALUE 60°F (estimate)	VALUE 90°F (estimate)	MIN 5.9
		(2) MASS			2		PD	nate)	nate)	MAX 7.9
	a.MAXIMUM DAILY VALUE	(1) CONCENT- RATION	51	530	57	20	VALUE 41,000 GPD	VALUE 60°F (estimate)	VALUE 90°F (estimate)	MIN 5.9
1. POLLUTANT			a. Biochemical Oxygen Demand (BOD)	b.Chemical Oxygen Demand (COD)	c.Total Suspended Solids (TSS)	d.Ammonia (as	e.Flow	f. Temperature (winter)	g. Temperature (summer)	h.pH

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.

	,			7		I GOOD		- 1				
	OUTFALL NO.001	" in ne, or	KE) (IE	NO OF AL	ES					J	NA
	OUT NO.	Mark "X lutant Juideli Jants f	5. INTAKE	(optional)	LONG TERM AVERAGE VALUE		(2) MASS					NA
		ent. Iny politions of politions controlled			a. LON		(1) CONC.					NA
		s pres for a limita other	4. UNITS		b. Mass							NA
		Lieve is lumn 2a Eluent Ever For Ition of	4		a. CONCEN- TRATION							Mg/l
		to belark colan eff			d. NO. OF ANAL- YSIS							Н
		reason you m ly, in hat po or an			LONG TERM AVERAGE VALUE (if available)		(Z) MASS					NA
		have t. If xpress for t data	EFFLUENT		c. LO A A A A A A A A A A A A A A A A A A A	(11)	CONC.					NA
		absen but e. alysis titive fall.	3. EFF	V.C.V.	. MAXIMUM 30 DAY VALUE (if available)	(2)	MASS					NA
		you k to be rectly one and quant		4	o. MA 30 VA VA avai	(1)	CONC.				5	NA
		Lutant elieve f indij east provide		MAXTMIM	DAILY VALUE	(2)	MASS				KIN	YN1
		Pollyon be 'y, or at linst plust plu		A. M.		(1)	CONC				0	
ERISTICS	10 c	utant ydirect] ults of	uXu	B. BE-	LIEVED			×	×	×		
CHARACT	9-13-F	th poll	2. MARK "X"	A.BE-	LIEVED PRE- SENT						×	
B. INTAKE AND EFFLUENT CHARACTERISTICS	Mark "X" in column	column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant you melieve to be absent. If you mark column 2a for any pollutant you must provide the results of at least one analysis for that pollutant. For other pollutants your discharge. Complete one table for each outfall.	COLLOIANI AND CAS NO. (if avail-able)					a. Bromide (24959-67-	b. Chlorine, Total Residual	c. Fluoride (16984-48-8)	d. Nitrate-Nitrite	

•	KE al)		b. NO. OF ANAL-	YSES		NA		48	NA	G				7			
	5. INTAKE (optional)		LONG TERM AVERAGE VALUE	10)	MASS	NA		NA	NA	1							
			a. LONC	(3)	CONC.	NA		9.2	NA								
	UNITS		b. MASS			NA		NA	NA								
	4. UN		A. CONCENTRATION			Mg/1		Mg/1	Mg/1								
		QN TO	OF OF ANAL- YSIS			1		36	H	W.							
		LONG TERM	AVERAGE VALUE (if	(2) MASS		NA	KIN	NA	NA						+	+	
TITZNE		c. LON	AI V	(1) CONC.		NA	o	7.0	NA	(1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4						1	
3. EFFT.ITENT		MAXIMUM	30 LAY VALUE (if available)	(2) MASS		NA	AN		NA								
		b. M	SC VP avai	(1) CONC.		AN	20		NA								
		MAXIMUM		(2) MASS		NA A	NA		NA								
		A. MA	VALUE	(1) CONC.	0	0.81	20	1	T 4.							1	
"X _{ii}		B.BE- LIEVED	ABSENT									×	×	×			
2. MARK "X"		A.BE- LIEVED	SENT SENT		×		×	×			íty				×	×	
1. POLLUTANT	AND CAS NO. (if avail- able)			6	Φ;	Nitrogen, Total Organic (as N)	f. Oil and Grease	g. Phos-	phorus (as P), Total	(7723-14- 0)	h. Radioactivity	1. Alpha, Total	2. Beta, Total	3. Radium Total	4. Radium 226, Total	i. Sulfate (as SO ₄)	79-8)

1. POLLUTANT AND CAS NO. (if avail-able)	2. MARK "X"	"X"				3. EFFLUENT	LNE			4.	4. UNITS		5. INTAKE	KE
	A.BE-	B. BR	A MANTANTA	MIN									(optagn)	
	LIEVED PRE- SENT	LIEVED	VALUE	LMILY	b. MAXIMUM 30 CAY VALUE (if available)	IMUM CAY JE f sble)	c. LONG AVE VP (j) avail	LONG TERM AVERAGE VALUE (if	d. NO. OF ANAL- YSIS	a. CONCEN- TRATION	b. MASS	a. LON AV, V,	LONG TERM AVERAGE	b. No OF ANAL- YSES
			(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS				(1) CONC.	(2) MASS	
F. Magnesium Total (7439- 95-4)	×		8.61	NA	NA	NA	NA	NA	-	Mg/1	NA	NA	NA	NA
s. Moly-bdenum Total (7439- 98-7)		×				1								
t. Manganese Total (7439- 96-5)	×		3.36	NA	NA	NA	NA	NA	1	Mg/1	NA	NA	NA	NA
u. Tin, Total (4770- 31-5)		×				T			La sa					
v. Titanium Total (7440- 32-6)		×												

at be r					/ 	
see attachment) lat apply to your ary industries, vor have reason any pollutant, you must provide in concentrations eve that you either submit at 20 pages to this	200	D. NO. OF ANAL-			NA	
(see att ihat app Mary ind w or ha w or ha you mu you mu i in con trophen trephen t either	5. INTAKE	LONG TERM AVERAGE VALUE	(2) MASS		NA	
able I titions to second (second you knot you knot he for the formula for the	200	ri .	(1) CONC.		NA	
to T. to T. list fraction to T. to T. and t	UNITS	b. MASS			NA	
r, referred GC/M rk columnark to for a mark to for a for a for a to for a for	4. UN	a. CON- CEN- TRA- TION			Mg/1	
a primary industry and this outfall contains process wastewater, refer to Table I (see s. Cyanides, and total phenols. If you are not required to mark column 2-a for all such GC/MS fractions that in column 2-b for each pollutant you believe is absent. If you mark column 2-b for each pollutant you know or visible for that pollutant you believe is absent. If you mark column 2 for any ysis for that pollutant, or have reason to believe it will be discharged in the column 2 for acrolein, acrylonitrile, 2, 4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol or greater. Otherwise, for pollutants which you know or have reason to believe scribe the reasons the pollutant is expected to be discharged in complete one table (all 20 pages) for each outfall. Note that there are 20 greater.		d. NO. OF ANAL- YSIS			9	
process umn 2-a ot requi column is abse you mar eason to dinitr i dinitr which for which o be dii	UENT	c. LONG TERM AVERAGE VALUE (if available)	. (2 . MA SS	7	NA	
tains in collassing are no la lieve related to 2, 2, 4 utants corted to or eac	3. EFFLUENT		(1) CONC.		0.002	
fall con lark "X" If you), mark nt you be pollutant know or h lonitrile nese poll for pollu	er T	b. MAXIMUM 30 DAY VALUE (if available)	(2)		1 NA	
is out or. N enols. ctions ctions olluta that f you acry n of tl			S CONC		0.01	
and thest fall ph MS fra each point is for colein, or each to otherwood otherwood ble (a		MAXIMUM DAILY VALUE	(2) MASS		NA	
ustry must and to sed GC// s for a naalys pollui for aci sis fc ter. sons t		· ·	(1) CONC		0.01	
ary indions you nides, on require lumn 2-c st one on that umn 2b for man 2b f	"X"	C.BE- LIEVE D ABSEN T	S	×		×
are a primited and are a primited and no "X" in co onally is for a lead and lysis for a least on the areast of 100 ppb of describe afully. Co	2. MARK "X"	BE- LIEVED PRE- SENT	TOTAL PHENOLS		×	
of the GC/M LL toxic met ter outfalls ent. Mark " The results of least one an er. If you i sults of at itrations of or briefly of reach careful	A	TEST- ING RE- QUIR- ED	AND		×	
mine 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 so wastewater outfalls, and total phenols. If you are not required to mark column 2-a for all such GC/MS fractions that apply to your so wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason. If you mark column 2-b for any pollutant, you know or have reason be or greater. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe it will be discharged in concentrations e in concentrations of 100 ppb or greater. Otherwise, for pollutants shich you know or have reason to believe that you ease review each carefully. Complete one table (all 20 pages) for each outfall. 1. POLLUTANT	AND CAS NO. (if avail-able)		METALS, CYANIDE,	1M. Antimony, Total (7440- 36-0)	senic,	Beryllium al 0- 7
	K ~ nj		MET	1M. A. Total (7440- 36-0)	2M. Ar. Total (7440- 38-2)	3M. B Total 7440- 41-7

Page 11

al)	b: NO. OF ANAL- YSES		(0				T	98		
5. INTARE (optional)	LONG TERM AVERAGE VALUE	(2)	COUL						m		
	a. LON AV	(1) CONC					1		15	0	
UNITS	b. MASS								Pou	nds	
4.	a. CON- CEN- TRA-					HILLS A	iā		Mg/1		
	d. NO. OF ANAL- YSIS					2677			36		
	LONG TERM AVERAGE VALUE (if available)	(2) MASS							10.8		
EFFLUENT	c. LON AVI VI avai.	(1) CONC.					•		52.9		
3. EFFI	. MAXIMUM 30 CAY VALUE (if	(2) MASS							10.8		
	b. MA 30 VA. (avai	(1) CONC.			i i	+ 11 5 - 1	1		52.9		S
	NIMUM	(2) MASS			32				10.8		E RESULT
	A.	(1) CONC.			1		100		52.9		DESCRIB
X	C.BE- LIEVED ABSENT		×	>	1277	×		<			
2. MARK "	B. BE- LIEVED PRE- SENT				44				~		×
	A. TEST- ING RE- QUIR- ED										
POLLUTANT AND CAS NO. (if avail- able)			11M. Silver, Total (7440-	22-4) 12M.	Thallium, Total (7440- 28-0)	13M. Zinc Total	(/440- 66-6) 14M.	Cyanide, Total (57-12-5)	ols,	NIXOIO	2,3,7,8- Tetrachlor odibenzo- P-Dioxin (1764- 01-6)
POLLUTANT 2. MARK "X" AND CAS NO. (if avail- able)	B. C.BE- A. MAX BE- LIEVED LIEVED LIEVED ABSENT PRE- VALUE				ım,	13M. Zinc X Total	('*440- 66-6) 14M.	ide, 1 12-5)	+	NIXOIQ	2,3,7,8- Tetrachlor odibenzo- P-Dioxin (1764-

1.		2. MARK "X"	11 XC 11			The state of the s									•
POLLUTANT AND CAS NO. (if avail- able)							3. EFFLUENT	JENT			4. U	4. UNLTS		5. INTAKE (optional)	1)
	A. TEST- ING RE- QUIR- ED	B. BE- LIEVED PRE- SENT	C.BE- LIEVED ABSENT	A. MAXIMUM EAIL VALUE	IMUM EAILY	b. MAXIMUM 30 CAY VALUE (if available)	MUM AY E E ble)	c. LONG AVE VA (i) avail	LONG TERM AVERAGE VALUE (11.7 available)	d. NO. OF ANAL- YSIS	a. CON- CEN- TRA- TION	b. MASS	a. LONG AVE VA	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	1	VOLATILE CO	COMPOUNDS												4
1V. Acrolein (107- 02-8)			×			Gin Ni				5.55 5.55 5.55					
2v. Acrylonitr ile (107-13-1)	1717		×			erine.							11.21.		
3V. Benzene (71-43-2)			×										5		15
4V. Bis (Chloro- methyl) Ether (542- 88-1)			×										1		
5v. Bromoform (75-25-2)			×									-			
6V.Carbon Tetra- chloride (56-23-5)			×										1		
7v. Chloro- benzene (108- 90-7)			×									-		+	
		-		_											

	b. No.	ANAL- YSES			-				-		1	+	
5. INITAL (optional)	A. LONG TERM		(1) (2) MASS						+	i i		$\frac{1}{1}$	
TIL		D. MASS			 -	+		-	+		+	-	
4. UNITS		a. CCN- CEN- TRA- TION			+	+	-	+	+		+		<u> </u>
		d. NO. OF ANAL- YSIS						+		_	-		-
			ble)	(2) MASS	_			-		+	_		+
E		C. LONG TERM AVERAGE VALUE (115	available)	(1) CONC.					_	+		_	-
PEFLUENT	1		51e)	(2) MASS			_		+	+		-	+
	ń	MAXIMUM 30 CAY VALUE	(if available)	E.)		1	١.,			_ \		1	1

KE (1)	b. NO. OF ANAL- YSES		1]				
5. INTAKE (optional)	LONG TERM AVERAGE VALUE	(2) MASS					
ŝ	a. LONG AVE VA	(1) CONC.	I E				
4. UNITS	b. MASS						
4. U	a. CON- CEN- TRA- TION						
	d. NO. OF ANAL- YSIS						
	LONG TERM AVERAGE VALUE (if	(2) MASS					
ENT	c. LONG TERM AVERAGE VALUE (if	(1) CONC.		_			
3. EFFLUENT	MUM AY E E ble)	(2) MASS			i i		
9	. MAXIMUM 30 CAY VALUE (if available)	1) ONC.			, S.		

TABLE 1

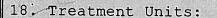
TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS INDUSTRY CATEGORY

~~	1-		٠,
(2)	7 6	лς	.,

GC/MS			
FRACTION			
INDUSTRY CATEGORY			
Volatile Acid			
Base/Neutral Pesticide			
		11 25	
Adhesives and sealants X	v		
Aluminum forming X	X	X	-
Auto and other laundries X		X	-
Battery manufacturing X	X	X	X
Coal mining	<u>-</u>	X	_
Coal mining	-	-	_
Copper forming X	X	X	-
Copper forming X	X	X	_
Electric and electronic compounds X	X	X	Х
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	Х	_
All other subparts	X	_	
Inorganic chemicals manufacturing x	X	Х	_
Iron and steel manufacturing	X	X	_
Leather tanning and finishing	X	X	-
Mechanical products manufacturing x	X	X	
Nonferrous metals manufacturing X	X		_
Ore mining (applies to the base and	Λ	X	X
precious metals/subpart B)	v		
Organic chemicals manufacturing X	X	-	-
Paint and ink formulation	X	X	X
Pesticides v	X	X	-
	X	X	X
Petroleum refining	-	-	_
Pharmaceutical preparations X	X	X	-
Photographic equipment and supplies			
Plactic and symbolic material	X	X	_
Plastic and synthetic materials			
mfg X	X	X	Х
Plastic processing X	-	-	_
Porcelain enameling	_	-	_
Printing and publishing X	X	X	Х
Pulp and paperboard mills			••
Unbleached Kraft (subpart A) 2	X	2	Х
Semi-chemical (subpart B) 2	X	2	2
(subpart C) 2	X	2	2
Unbleached Kraft-neutral sulfite		-	2
semi-chemical (cross recovery)			
(subpart D)	X	2	2
Paperboard from wastepaper (subpart		۷	2
E)	Х	2	v
Dissolving Kraft (subpart F) X	X	2	X
Market bleached Kraft (subpart G) X	X		2
BCT bleached Kraft (subpart H) X	X	2	2
Fine bleached Kraft (subpart I)	X	2	2
Papergrade sulfite (subpart J) X		2	2
Dissolving sulfite pulp (subpart K)	X	X	2
Groundwood-chemical-mechanical	X	2	2
(subpart I.)		_	
(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 0) X	X	2	2
Soda (subpart P) X	X	2	2
Deink (subpart Q) X	X	2	x

Nonintegrated-fine papers (sure rt R)			
Nonintegrated-tissue papers	Х	2	2
(subpart S) X	X	2	х
Tissue from wastepaper (subpart T) X	X	2	X
Papergrade sulfite (subpart U) X	X	X	2
All other subparts (V through Z) Deter	cmined case by	case, unless	
Super	seded by regu	lation.	
Rubber processing X	X	X	<u></u> 27
Soap and detergent manufacturing X	X	X	 0
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.



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)

The November of the State of the Company of the Com	NOTE THE PROPERTY OF THE PARTY		
A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
Enviro-labs	P.O. Box 1096	(601) 323-7744	Oil and grease
	Starkville, MS	B &	Metals
	39760-1096	= =	Total Phenol
· 3			
Southwest Lab	1700 W. Albany	(918) 251-2858	Constituents
Of Oklahoma	Broken Arrow, OK	Randy Staggs	Listed in Section
	74012		17, Part C
		w = = i	
		8	
		95	

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 Nich Book	hih Ball
Date Application Signed	Signature of Authorized Agent and/or Individual Meeting Signatory Requirements of 40 CFR 403.12(1)

加温 奥斯克		相關的發展	1 DE				- T	
97	b. NO. OF ANAL- ISES						,	
5. INTAKE (optional)	TERM RACE LUE	(2) MASS						
	a, long dern Average Value	(t.) conc.						
UNITS	p. Mass							
4. UNITS	CON- CON- TION							
	d. ND. OF ANAL- YSIS							
	Terri 1955 100 5 101et	(P) MASS						
DENET	o. LONG TERM AMERASE VALUE (15 avallables	(L) copto,						
3., Berthoens	FRUM CAX OR OF C C C C	(2) REFER						
	6. Maximum 30 Chi Value 41f evellable	(1) denic,						
	MAKIMDE EATER LUE	(8) MASS				ì		
	R. MAXI VALUE	(1) CONG.						
L	C. BE- LIEVED ABSENT		ontinued)	×	×	×	×	×
2. MARK "X"	B. BB- LIEVED PRE- SERT		VOLATILE COMPOUNDS (continued)					
	P. Course		TIE COM					
1. POLLUTANT AND CAS NO. (if avail-able)			GC/MS FRACTION - VOLAI	22V, Methylene Chloride (75-09-2)	83V. 1,1,2,2-fetra- chloro-ethade (79-34-5)	24V. Tetra-chloro- ethylene (127- 18-4)	25V. Toluene (108- 88-3)	26V, 1,2-Trans- Bichloro-ethylene (156- 60-5)
1.8.1. 1.8.1.			GC/MS	22V. Meth Chloride (75-09-2)	23V. 1,1, chloro-et (79-34-5)	24V. ethyl 18-4)	25V. (108- 88-3)	267, Dichle (156- 60-5)

2. MABK "X"
VALUE
(11) (2) CONC. MASS



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.

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.
- 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.
- 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.
- 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

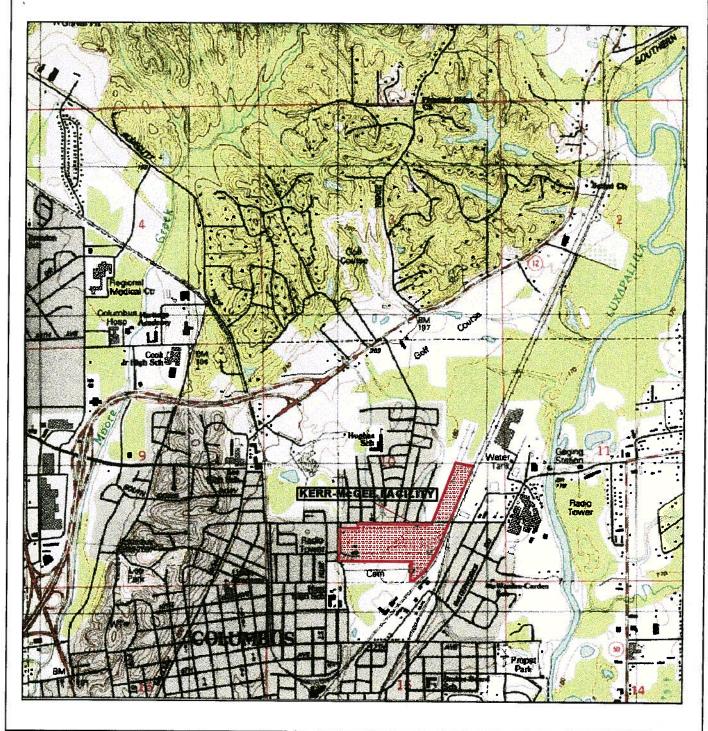
Manager, Regulatory Compliance and Environmental Affairs

c:

R. P. Murphey, Facility



DEPT. OF



QUADRANGLE LOCATION

COLUMBUS NORTH, MISS

LEGEND

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP





FIGURE 1 SITE LOCATION MAP

KERR-McGEE CORP.



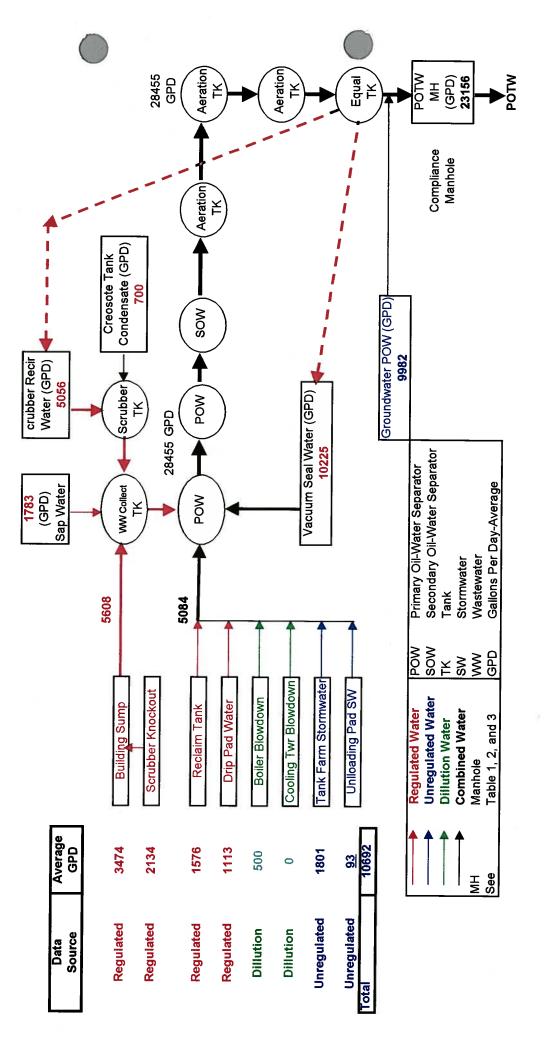
HYDROLOGIC SERVICES DEPT.

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



Col WWT.xls Schematic

Wastewater Classification Columbus, MS
N. Bock, Feburary, 2000 Table 1

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
See 40 CFR 403.6	Figure 1	Figure 1	Figure 1	Figure 1	Calculation	Figure 1	Calculation	Calculation
Process	Bldg Sump/Knockout	5608	23156	56 9982	13174	28455	0.4630	2596
Process	Reclaim Tank	1576	23156	56 9982	13174	28455	0.4630	730
Process	Drip Pad Water	1113	23156	56 9982	13174	28455	0.4630	515
Dilution	Boiler Blowdown	200	23156	56 9982	13174	28455	0.4630	231
Dilution	Cooling Twr Blowdown	0	23156	56 9982	13174	28455	0.4630	0
Unregulated	Tank Farm Stormwater	1801	23156	56 9982	13174	28455	0.4630	834
Unregulated	Unlloading Pad SW	83	23156	56 9982	13174	28455	0.4630	43
Process	Sap	1783	23156	56 9982	13174	0	0.4630	825
Process	Condensate	200	23156	56 9982	13174	28455	0.4630	324
Process	Scrubber Recirc	5056	23156	56 9982	13174	28455	0.4630	2341
Process	Vacuum Seal	10225	23156	56 9982	13174	28455	0.4630	4734
	Total Influent Scrubber Recirculation Vacuum Seal Recirculation Groundwater Discharged Influent	28455 -5056 -10225 9982 23156				<u> </u>	Total Discharge W/O GW Groundwater Discharged Total Effluent	13174 9982 23156

Col WWT.xls Data

Table 2 Combined Wastestream Formula Columbus, MS

Feburay 14, 2000

		Combined	Wastestrear	n Calculatio	d Wastestream Calculations 40 CFR 403.6(e)	3.6(e)				
Combined		Alternative Co	Concentration				Dilution	Dilution Effect		ALC
Wastestream	Pretreatment	Average	Pretreatment	Expression	_	Totai	Dilution	Total	Expression	Exi
Formula	Limit	GPD	E E	Solution		GPD	GPD	GPD	Solution	ļ
40 CFR 403.6(e)	ت	<u>.</u>	υ	(C ₁ X F ₁₎ / F ₁	-	F _T	T ₀	F.	(F _T X F _{D1} / F _D	ပ်
Boulton Subcategory	100									

98.24	97.84
0.98243	0.97841
28455	23156
200	200
28455	23156
100.0	100.0
26061	10780
26061	10780
100	100
WT Flow Without Recirc/GW	WT Flow With Recir/GW

Wastewater Sources Dilution (GPD) F _D WW Collection Tank 0 Drip Pad Water 0 Scrubber Knockout 0 Reclaim Tank 0	WWT Flow WI KIV Onregulate O	ithout Recirc/GW ICLLC d Regulated F, 7539	Total Water	Wastewater		WWT Flow W	WWT Flow With ReciriGW	
Sources (GPD) Tank if	KIN Unregulated	Regulated F, F, 7539	Total Water F _T	Contract				
(GPD) Tank Ir Skout		Regulated F ₁ 7539 1113	Total Water F _T	SOULCES		XX	KMCLLC	
n Tank ar akout	0 0	7539 7113		(GPD)	Dilution		ulated	Total Water
WW Collection Tank Drip Pad Water Scrubber Knockout Reclaim Tank	000	7539	ACTION OF THE PROPERTY OF THE PARTY OF THE P		Ρο	NA	Ē	F _T
Unip Pad Water Scrubber Knockout Reclaim Tank	0 0	1113		WW Collection Tank	0	0	7539	
Scrubber Knockout Reclaim Tank 0	•			Drip Pad Water	0	0	1113	
Reclaim Tank	0	2134		Scrubber Knockout	0	0	2134	
	0	1576		Reclaim Tank	0	0	1576	
Vacuum Seal Water	0	10225		Vacuum Seal Water	0	0	10225	
Building Sump 0	0	3474	_	Building Sump	0	0	3474	
Boiler Blowdown 500	0	0		Boiler Blowdown	200	0	0	
- un	0	0		CW Blowdown	0	0	0	
Tank Farm Stormwater	1801	0	•	Tank Farm Stormwater	0	1801	0	
Unloading Pad Stormwater	8	0		Unloading Pad Stormwater	0	83	0	
				Vac Seal Water Recirc.	0	0	-10225	
			<u> </u>	Scrub Water Recirc.	0	0	-5056	
			J	Contaminated GW	0	9982	0	
Sub Totals (Water Before Recycle) 500	1894	26061	28455	Sub Totals (Water Before Recycle)	200	11876	10780	23156
See Water Balance Schematic				See Water Balance Schematic				

Wastewater Classification Table 3

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 blowdownb) 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.
- believe pesticides are compatible with the POTW and 40 CFR 429 limits pollutants from a wood treating plant for this d) The wastewater contains only pollutants which are compatible with the general policies of the POTW. We do not very reason with categorical standards.
- Wastestream formula. The timber Products category is listed: however, neither the boulton nor steaming subcategories The appendix lists industrial subcategories considered to have dilute wastewater for the purpose of the combined 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)

categorized as dilution water. However, use of the unregulated category provides the same benefit as classifying waters 5) No other wood preserver in the country, to our knowledge, has groundwater, tank farm water, or cleaning water 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

PRETREATMENT LIMITATIONS AND MONITORING REQUIREMENTS Ą.

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	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	JIREMENTS
	kg/day Monthly Avg	kg/day (lbs/day) Monthly Avg. Monthly Max.	Other Units (Specify) Monthly Avg. Monthly Max.	Specify) nthly Max.	Measurement Frequency	Sample Type
Flow-M ² /day (MGD) Oil and Grease Total Phenols	 14.8(32.6)	22.2(48.8)	075 MGD Report (mg/1) 59 mg/1 52 mg/1 78 mg/1	.075 MGD 59 mg/l 78 mg/l	Once/Day Twice/Month Twice/Month	Continuous Grab Grab
	kg/day Annual Avg.	kg/day (lbs/day) Annual Avg. Annual Max.	Other Units (Specify) Annual Avg. Annual Max.	Specify) nnual Max.	Measurement Frequency	Sample Type
Pentachlorophenol Chromium, Total Copper, Total Arsenic, Total	.34 (.744)	.51(1.12) .67(1.48) .84(1.85) .67(1.48)	1.19 mg/l 1.79 mg/l Report (mg/l) 2.36 mg/l Report (mg/l) 2.95 mg/l Report (mg/l) 2.36 mg/l	1.79 mg/1 2.36 mg/1 2.95 mg/1 2.36 mg/1	Twice/Year Twice/Year Twice/Year Twice/Year	Grab Composite* Composite* Composite*

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. ς.

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. ო

*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.

Page 3 of 22 Permit No. MSP090021

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.

Page 5 of 22 Permit No. MSP090021

- 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.

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.

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 caseby-case basis for reports under paragraph a. of this section if the oral report has been received within 24 hours.

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Permit No. MSP090021

- 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

The permittee shall notify the Mississippi Department of a. 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).

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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.

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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.

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- 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

PRETREATMENT LIMITATIONS AND MONITORING REQUIREMENTS Ä

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, Boller Blowdown, and Remediated Groundwater). ႕

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

Parameter		DISCHARGE	DISCHARGE LIMITATIONS		Monitoring requirements	JIREMENTS
	kg/day (lbs/day) Monthly Avg. Monthly	kg/day (lbs/day) Monthly Avg. Monthly Max.	Other Units (Specify) Monthly Avg. Monthly Max	(Specify) onthly Max.	Measurement Frequency	Sample Type
Flow-M ³ /day (MGD) Oil and Grease Total Phenols	14.8 (32.6)	22.2(48.8)	075 MGD Report (mg/l) 59 mg/l 52 mg/l 78 mg/l	.075 MGD 59 mg/l 78 mg/l	Once/Day Twice/Month Twice/Month	Continuous Grab Grab
	kg/day (lbs/day) Annual Avg. Annual Max.	lbs/day) Annual Max.	Other Units (Specify) Annual Avg. Annual Ma	(Specify) Annual Max.	Measurement Frequency	Sample Type
Pentachlorophenol Chromium, Total Copper, Total Arsenic, Total	.34(.744)	.51(1.12) .67(1.48) .84(1.85) .67(1.48)	1.19 mg/l Report (mg/l) 2.36 mg/l Report (mg/l) 2.95 mg/l Report (mg/l) 2.36 mg/l	1.79 mg/l 2.36 mg/l 2.95 mg/l 2.36 mg/l	Twice/Year Twice/Year Twice/Year Twice/Year	Grab Composite* Composite* Composite*

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. ٠ ن

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.

. ო *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.

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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.

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
Appl	ication 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) KERR MCGEE CHEMICAL LLC 1. Name of Applicant: FOREST PRODUCTS DIVISION Mailing Address of Applicant: 2300 14th AVENUE NORTH Number & Street (P. O. Box): COLUMBUS State: 39701 City: Zip: 601/ 328-7551 Telephone Number: 3. Applicant's Authorized Agent: KONALD P. MURPHEY PLANT MANAGER Name and Title: Number & Street (P. O. Box): 2300 14th Ave. North MS 39701 City: DLUMBUS State: Zip: 601/328-7551 Telephone Number: 4. Facilities Location: 2300 14th AVE. NORTH Number & Street (P. O. Box): County: City: OLUMBUS OWNDES Latitude (Deg., Min., Sec.): 33 32,30

Longitude (Deg., Min., Sec.):

12. Facility Wate	er Use:		
	volume in thousand water usage at	nd gallons per day this facility.	for the
Noncontact Coolin	1g: /	A A	
Boiler Feed:	20	on the second	
Process (Includia	ng Contact Cooling	g): 3	
Sanitary:	/		
Other:	2		
Total:	27		
13. List all Faci	lity Discharges:	CITY OF COL	UMBUS POTW
None	licate volume in t	housand gallons.	
discharge, or in wastewater.	case of no discha	process(es) productinge, that generate www. Some Wood is DR	8
A BOULTON PROCESS	. THE WATER THAT	IS REMOVED FROM THE	WOOD 15
		VE A GROUND WATE	
	,	RECOVERY WELLS. AHIS PATOR AND IS DISC	
pars / filosofi A	TICY WATCH SEPER	ALOK HAD IS DISC	-HAKGEP.
15. List raw mate	rials used:	WOOD	
	2)(CREOSOTE	
		11	actorial and a second

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.

M T	E. NO.	100							0		
5. INTAKE	LONG TERM AVERAGE VALUE	(2) Mass									
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ıts	b. Mass	1000 1000 1000 1000 1000 1000 1000 100								٠	
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	d. NO. OF ANAL- YSIS										
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JENT	Ü	(1) CONC.									
3. KFFLÜENT	XIMUM DAY LUB 1f	(2) MASS						55-11		3	
	b. MAXIMIM 30 DAY VALUE (if available)										
	MAXIMUM DAILY VALUE	(2) MASS									
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TS	b. MASS	000 000 000 000					
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	d. NO. OF ANAL- YSIS						
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IENT	c. LONG AVEL VAJ 878116	(1) CONC.				29 481	
3. BPPLÜENT	o. MAXIMUM 30 DAY VALUE (1£ Available)	(2) MASS			l a		
	b. MA. 30 VA. Avai	(1) CONC.					
	MAXIMUM DAILY VALUE	(2) MASS		×	4		
	A. MA.	(1) CONC.					
.×.	B.BE- LIEVED ABSENT	800 ₃ .	×	×	×	×	×
2. MARK "X"	A.BB. LIEVED PRE. SENT	9880 9880 98					
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5. INTAKE	LONG TERM AVERAGE VALUE	(2) MASS							j
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3. BFFLURNT	MAXIMUM 30 DAY VALUE (1f vallable)	(2) MASS		45	NA				
	b. MAXIMUM 30 DAY VALUE (1f available)	(1) CONC.		47	\$ &				
	MAXIMIM DAILY VALUE	(2) MASS		ΑN	NΑ				
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	A. MAX DA VA	(1) CONC.				:				
χ'n	C.BB- LIBVED ABSENT		COMPOUNDS	×	×	X	×	~	×	*
2. MARK "X"	B. BE- LIBVED PRR- SENT		VOLATILE COMPOUNDS							
N	A. TEST- ING RR: QUIR-	ng.	. 1							
POLITIANT	NO. (if avail. able)		GC/MS FRACTION	Acrolein (107: 02:8)	Acrylomit file (107-13-	3V. Benzene (71-43-2)	4V. Bis (Chloro- methyl) Rther [542: 88:1)	5V. Bromoform (75-25-2)	6V.Carbon Tetral- chloride (56:23:5)	7V. Chloro- bensene (168: 90-7)

	b. NO. OP. NAMAL								
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х.	C.BR- LIRVED ABSENT		*	X	X	X	*	7	X
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	A. TEST. ING RE. QUIR.). 19					٠	
1. POLLUTANT AND CRE	NO. (if avail- able)		15V. 1.2- Dichloro- ethane (107- 06-2)	16V. 1,1. Dichloro: ethylene (75:35:4)	17V. 1,2. Dichloro: propane (78:87:5)	18V. 1,3. Dichloro: propylene (542:	19V. Ethyl. bengene (100-	20V. Methyl Bromide (74.83.9)	21V. Methyl Chloride (74-87-3)

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s 2	a. LON AVI	(1) CONC.								
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**	b. MAXIMUM 30 DAY VALUE (1f available)	(1) CONC.								
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	A. MAX DA VA	CONC.								
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2. MARK "	B. LIBVED PRE. SENT		×		ASE/NEUT	ı				
	A. IEST- ING RE- OUIR-	Tig .			•					
POLLUTANT	NO. (1ff avail- able)		10A. Phenol (108- 95.2)	11A. 2.4.6. Trichloro phenol (88.06.2)	GC/MS FRACTION	18. Acenaph- thene (83-32-9)	28. Acenaph. tylene (208-	3B. Anthre- Cene (120.	4B. Benæidine (92-87-5)	SB. Bengo (a) Anthra- Cene (56.55-3)

POLLUTANT AND CAS	2. MARK	"X"	30.00 Telephonesis (1990)		e	3. EPFLUENT	FLUENT			4. 0	UNITE	.e.	5. INTAKE (optional)	M 27
A. TEST. ING BB:	BE. LIEVED PRE.	C.BB. LIBVED ABSENT	A. MAXINUM DATLY VALUE	I V V V V V V V V V V V V V V V V V V V	b. MAXIMUM 30 DAY VALUE (if avaliable)	IMUM Day Jis f gble)	c. LONG AVE VP (J	LONG TERM AVERAGE VALUE (1f	d. NO. OF ANAL- YSIS	CON- CEN- TEN- TION	b. Mass	A. LONG AVI VI	LONG TERM AVERAGE VALUE	b. No. OF ANAL:
à		7 Ba	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS	(1) CONC.	(2) MASS		94855 CO. 100 10055 CO. 10055 CO. 100 10055 CO. 10055 CO. 100 10055 CO. 10055 CO. 10055 CO. 100 10055 CO. 10055		(1) CONC.	(2) MASS	
128. Bis(2. Chloroiso propy1) Ether (102.		×									*			
13B. Bis (2- Bibyl- hexyl) Phthalate (117- 81-7)		>												
14B. 4- Bromophen yl Phemyl Sther (101- 55-3)		\times			3				S 2				-	
15B. Buryl Benryl Phthalate (85-68-7)		\prec												
16B. 12. Chloronap hthalene (91-58-7)		×				•								
		>									77			

	*				T-		- 			
	b. NO. OF AMAL:	01 M 7)			'					
5. INTAKE	LONG TERM AVERAGE VALUE	(2) MASS								
, B1	a. LON AVY V.	(1) CONC.								
4. UNITS	b. MASS	100 mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/m								
Ð ; Ð	CON.									
	d. KO. OF ANAL- YSIS									
	LONG TERM AVERAGE VALUE (if	(2) MASS								
FLUENT	G. LONG AVE VA (1	(1) CONC.								v
3. BPFLUENT	INUM DAY UE f	(2) MASS								
.,	b. MAXIMUM 30 DAY VALUE (if	CONC.			2					
	MAXINUM DATLY VALUE	(2) MASS								
	A. MAX DA VA	(1) CONC.								
	C.BE- LIEVED ABSENT									
2. MARK "X"	B. LIEVED PRB. SENT	223			- 0					
2	A. TEST. ING RE. QUIR-	ì								
POLLUTANT AND CAS	NO. (if avail. able)		8P, 4,4'- DDB (72-55-9)	9P. 4,4'. DDD (72-54-8)	10P. Dieldrin (60-57-1)	11P. a. Endo- sulfan (115: 29-7)	12P. B. Budo. Fulfan (115. 29-7)	13P.Endo- multan Sulfate (1031: 07-8)	14P. Rudrin (72-20-8)	15P. Bndrin Aldehyde (7421: 93:4)

*							
ma	b. NO. OF ARAL-						
S. INTAKE (optional)	LONG TERM AVERAGE VALUE	(2) MASS					
5	A. LONG AVI V	(1) CONC.			65		
itts	b. Mass						
4. UNITS	A. COM. CEN. TRA.						
	d. NO. OP ANAL- YSIS						
	LONG TERM AVERAGE VALUE	(2) MASS					
IENT	C. LONG AVE VA (1	(1) CONC.					
3. BPFLUENT	IMUM DAY UR f able)	(2) MASS			11	- 7,41	
	b. MAXIMUM 30 DAY VALUE (if available)	(1) CONC.					
	AXINUM DAILY VALUE	(2) Mass					
	A. MAXIMUM DAILY VALUE	(1) CONC.	(pa				
K#	C.BE- LIEVED ABSENT		continue				
2. Mark "X"	B. BE- LIEVED PRE- BENT		TICIDES		7.11		
74	A. TEST. ING RE. QUIR-	N.U.	rion pes			N.	
POLLUTANT AND CAS	NO. (if avail- able)		GC/MS PRACTION 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)

INDUSTRY CATEGORY	Vo	latile	Acid	GC/MS FRACTION Base/Neut		Pestic:	i de
				<u>PARC/NEUL</u>		FEBLIC.	rue
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		_	
Electric and electronic compounds	• •	X X	X X	X			
Electroplating	• •	X	X	× X		X	
Explosives manufacturing		-	x	X		-	
Foundries	• •	x	x	×		-	
Gum and wood chemicals	• •		45	A		-	
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		•	
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	33
Ore mining (applies to the base and	• •		45	A		^	
precious metals/subpart B)		-	x	•		_	
Organic chemicals manufacturing		X	x	X		X .	
Paint and ink formulation		X	x	x			
Pesticides			x	x		e 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) Fine bleached Kraft (subpart I)	• •	X	x	2		2	
Papergrade sulfite (subpart J)	• •	X	X	2		2	
Dissolving sulfite pulp (subpart K)	• •	X	X	x		2	
Groundwood-chemical-mechanical (subpart	 - T\	X	X	2		₩ 2	
Groundwood-termo-mechnical (subpart M)	C T()		X	2		2	
Groundwood-CMN papers (subpart N)	•	X X	X	2		2	
Groundwood-fine papers (subpart 0) .		X	X	2		2	
Soda (subpart P)	• •	X	X	2 .		2	
Deink (subpart Q)	• •	X	X X	2		2	
Nonintegrated-fine papers (subpart R)	• •	2	X	2		X	
Nonintegrated-tissue papers (subpart S)		X	X	2		2	
Tissue from wastepaper (subpart T)	•	X	X	2		X X	
Papergrade sulfite (subpart U)		x	X	X		х 2	
All other subparts (V through Z)				by case, unl	866	4	
	•		led by re	egulation.	- DD		
Rubber processing		X	X	X		1	
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 an inic and Cationic floculants. We then go through an oil/water seperator. It then flows through 3 aerated tanks with biological treatment. (a) Wastewater flow > primary oil/water seperator > primary oil/water seperat Chemical treatment - Secondary -Oil/water seperator Settling tank aerated biological -> POTW
tanks (3) b) Groundwater flow > OIL/WATER Seperator -> POTW

Attachment A

FACILITY DATA SCREEN #1 (FAC1)

*FACILITY NAME: Kerr-McGee Chemicall City	
COGNIZANT COMP. 1 - Forest Produ	iets
TELEDUOYE (See Table 1)	87
MARER 16 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	53
(See Table =1) TYPE OF APPLICATION: FAC. OWNERSHIP: (See Table =2)	\overline{T}
THE OF PERMIT. (c) ADDRESS TO THE STATE OF T	_ <u>_</u>
WATER QUALITY : W	, <u>L</u>
SUB-REGION: WO ENGINEER: MRB *AVERAGE DESIGN FLOW: [A]	
NO=NRO CO=CRO WIU ENGINEER: MRB *AVERAGE DESIGN FLOW: 073	5 14
Permit Tracking (PTRK) Engineer A R B (u.d.e. *1)	= ; =
Permit Issued: 10-11-94 Permit Expires: 10-10-99 (P5099)	
Facility Data Screen #2 (FAC2)	<u></u>
* River 0338 1018 - Big Black 1099 - Coastal Streams	
Ujj8 - Upper Tombigbee River 1011 - Vocan Independen	t
Odd8 - Lower Tombigbee River 0342 - Pascagoula River 1006 - Mississippi River Waters (MSOU 23868)	r
Facility Treatment ALP:7 HC = Hydrograph Controlled	
(rdf1) ML = Multiple Lagoon NC = Non-Contact Cooling	
Y = Industrial AC = Activated Carbon OF = Overland Flow P = Dreft	
M = Municipal AL = Aerated Lagoon PH = PH Adjustment D = Domestic AN = Anaerobic Lagoon PC = Physical / Chemical	
F = Federal AW = Artifical Wetlands RR = Recyle and Reuse	
Toxic & Bio- CT = Conventional Lagoon RBC = Rotating Biological	
T = Toxic	i
A = Acute EV = Evaporation TF = Trickling Filter C = Chronic	

JUTFALL GENERAL DATA SCREEN (OFLG)

**PERMIT = : M 5 P 0 9 0 0 2 1 **TRANSACTION CODE : W
**DISCHARGE NUMBER : 001 **REPORT DESIGNATOR : A
*INITIAL REPORT DATE : 11 - 01 - 94 *REPORT UNITS : M
REPORT PERIOD : 001 ***TOTAL NUMBER OF UNITS DUE : 060
PIRE DESCRIPTION DATE: 112-28-94 STATE SUBMISSION UNIT
PIPE DESCRIPTION: Pretreated Process Wastenater Boiled Brandown behalf
SEASONAL DMR PRINTING INDICATED TO THE PRINT
INITIAL LIMIT DATES :
INTERIM LIMIT DATES :
FINAL LIMIT DATES :
START 10-11-94 END 10-10-100
PIPE INACTIVE CODE : PIPE INACTIVE DATE :
Items marked with a day

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

Lecure = M21h010011	-ermit	= M2140 d0	021
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Facility Name Kerr-McGee Chemical Col
Address Line: PO Box 906
Address Line2
CTY[C 6 Unbus ST MS Zip 3 07 10 10 1
110311103
Facility Name Alternate DMR Mailing Address
Address Linel (AST1)
Address Line2
CTY
ST Zip
Facility Name Facility Location Address
Address Line1 (RST1)
Address Line2 (RST2)
CIY
ST Zip
Telephone 601-328-7551

¹² Items marked with a double asterisk are items that MUST be entered before to 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

PERMIT BOARD AGENDA OFFICE OF POLLUTION CONTROL SURFACE WATER QUALITY DIVISION October 11, 1994 Page -4-

NDUSTRIAL - NEW SOURCE PRETREATMENT PERMITS (contd)

U.S. Motors

Neshoba/Philadelphia

Tolven, Ving/ Oblando Zinc E

ATM T PERMIT REISSUANCE

Kerr-McGee Chem_cal Lowndes/Columbus POTW MSP090021

Divis

INDUSTRIAL - PRETREATMENT PERMIT MODIFICATION

Amoco Oil Company

Lauderdale/Meridian

MSP090574

7,200xpd

oil/water sep.

INDUSTRIAL - NEW SOURCE STATE OPERATING PERMITS

1 Ronald Tamor Dairy Pike County U115t7 120 Pat Ard Dairy

Oxight 175 cons

Steve Smith Dairy Lincoln County 5 OPC 94-053 TOPISAW Creek Copiah County Triangle B Farms OPC 94-079 Newton County Doris and Mike Bruce OPC 94-141 Simpson County Poultry OPC 94-101 10,000 Maurice Layton Poultry Simpson County · OPC 94-105 James D. Blackburn Newton County Poultry OPC 94-145 20,000. Michael Brewer Poultry Wayne County Tim Brantley Poultry OPC 94-119 ike County OPC 94-142 90,000



PERMIT BOARD - PROPOSED AGENDA

INDUSTRIAL WASTEWATER CONTROL	BRANCH
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JERRY W. CAIN - CHIEF 0ct. 3,1494	DATE
October 11, 1944 DATE OF PERMIT BOARD MEETING	140
NEW/REISSUE/MODIFY/REVOKE PERMIT NO.	COUNTY
NAME:	
NATURE OF OPERATION:	
TYPE OF WASTEWATER:	
TREATMENT UNITS:	0
OUTFALL(S) AND FLOW(S):	·
DATE INSPECTED OR TO BE INSPECTED:	3 (1952) 4 (2)
RECEIVING STREAM(S):	= 100 = 10
WATER QUALITY LIMITED? WENT TO PUBLIC NOTICE?	-3
EXPLANATION OF PERMIT AND LIMITATIONS: (IF MODIFICATION, WH	
NEW/REISSUE/MODIFY/REVOKE PERMIT NO.	COUNTY
NAME: Kerr-McGee Chenical Corporation MSP090021	COUNTY Lownder
NAME: Kerr-McGee Chenical Corporation MSP090021 Forest Froducts Division NATURE OF OPERATION: Wood Preserving	Lownde
NAME: Kerr-McGee Chenical Corporation MSP090021 Forest Products Division NATURE OF OPERATION: Wood Preserving TYPE OF WASTEWATER: Process, Boiler Blowdown, And Remediated Groundwater	Lownde, Colland Greate, Pleno As, And Pentachlo
NAME: Kerr-McGee Chenical Corporation MSP090021 Forest Products Division NATURE OF OPERATION: Wood Preserving TYPE OF WASTEWATER: Process, Boiler Blowdown, And Remediated Groundwater	Lownde, Colland Greate, Pleno As, And Pentachlo
NAME: Kerr-McGee Chenical Corporation MSP090021 Forest Froducts Division NATURE OF OPERATION: Wood Preserving	Lownde, Colland Greate, Pleno As, And Pentachlo
NAME: Kerr-McGee Chenical Corporation MSP090021 Forest Products Division NATURE OF OPERATION: Wood Preserving TYPE OF WASTEWATER: Process, Boiler Blowdown, And Remediated Groundwater (TREATMENT UNITS: 0:1/water Separators, Clemical Treatment, And	Lownde, Colland Greate, Pleno As, And Pentachlo
NAME: Kerr-McGee Chenical Corporation MSP090021 Forest Products Division NATURE OF OPERATION: Wood Preserving TYPE OF WASTEWATER: Process, Boiler Blowdown, And Remediated Groundwater (TREATMENT UNITS: 0:1/water Separators, Clemical Treatment, And	Lownde, Colland Greate, Pleno As, And Pentachlo
NAME: Kerr-McGee Chenical Corporation MSP090021 Forest Froducts Division NATURE OF OPERATION: Wood Preserving TYPE OF WASTEWATER: frocess, Boiler Blowdown, And Remediated Groundwater (TREATMENT UNITS: 0:1/water Separators, Clemical Treatment, And OUTFALL(S) AND FLOW(S): Flow (MAX) - , 075 MGD	Lownde, Colland Greate, Pleno As, And Pentachlo
NAME: Kerr-McGee Chenical Corporation MSP090021 Forest Products Division NATURE OF OPERATION: Wood Preserving TYPE OF WASTEWATER: Process, Boiler Blowdown, And Remediated Groundwater (TREATMENT UNITS: 0:1/water Separators, Clemical Treatment, And OUTFALL(S) AND FLOW(S): Flow (MAN)075 MGD DATE INSPECTED OR TO BE INSPECTED: February 24,1994 RECEIVING STREAM(S): Columbus POTW (MS0023868)	Lownde, Colland Greate, Pleno As, And Pentachlo
NAME: Kerr-McGee Chenical Corporation MSP090021 Forest Products Division NATURE OF OPERATION: Wood Preserving TYPE OF WASTEWATER: Process, Boiler Blowdown, And Remediated Groundwater (TREATMENT UNITS: 0:1/water Separators, Chemical Treatment, Ammoutfall(s) and Flow(s): Flow (MAN)075 MGD Date Inspected or to be inspected: February 24,1994 RECEIVING STREAM(s): Columbus POTW (MS0023868)	Lownde, Oiland Greave, Pleno As, and Pentacylo Biological UN;

1 Monitoring requirements Atebeing Added. The oil And grease limits are changing from 50 % (Aug) And

einy Added to the Total Phenols requirements. The monitoring frequency for Oil And Grease, otal Phenols, And pH is being reduced to twice/month, twice/month, and once/week respectively. Also, A