

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Office of Pollution Control
1542 Old Whitfield Road
Pearl, MS 39208
601-664-3900

COMPLIANCE MONITORING REPORT

To: LARRY HAMIL RANDY JONES	
Sample ID: AA33148	QA Type:
Facility Name: TRONOX LLC COLUMBUS	Date Collected: 05/08/2007
Sampling Loc: EFFLUENT	Time Collected: 12:10
Site ID: C0870001	Sample Collector: RJONES
Discharge No: MSP090021-001	To Lab: DOUGLAS
Other No:	Sample Type: WASTEWATER
Permit No: MSP090021	Date Received: 05/09/2007
Latitude:	Time Received: 0950
Longitude:	Received By: TAMMY SAWYER
County: 087 LOWNDES	Project: 5700
	Study: COMPLIANCE

ANALYTE	METHOD	RESULT	UNIT	MQL	ANALYST
Flow mgd		0.0447	MGD	0	RJONES
pH, Field Measurement	150.1	6.40	pH units		RJONES
Temperature, Water	170.1	22.9	deg C	0	RJONES
Arsenic, Total	200.7	<MQL	ug/L	50.0	BBRUCE
Chromium, Total	200.7	<MQL	ug/L	10.0	BBRUCE
Copper, Total	200.7	<MQL	ug/L	10.0	BBRUCE
Pentachlorophenol Compliance	625	*18.4	µg/L	50	JSHELL
Oil & Grease, Total Hexane	1664A	11.7	mg/L	5	OCLARK
Phenols, Total Recoverable	10-210-00-1-B	0.52	mg/L	0.05	KFARRIS

ABBREVIATIONS / DEFINITION

ug/L: micrograms/Liter
mg/L: milligrams/Liter
mg/kg:
milligrams/kilogram
ug/g: micrograms/gram
ppm: parts per million
ppb: parts per billion

<: less than
MQL: Maximum Quantifiable Level
MDL: Method Detection Limit
LSPC: result less than lower specification
USPC: result greater than upper specification
TIE: Tentatively Identified or Estimated
>: greater than

COC Date: Date Chain of Custody Signed
COC Time: Time Chain of Custody Signed

SAMPLE COMMENTS:

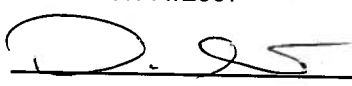
ENVIRONMENT CONDITION: INSIDE BUILDING

WHERE TAKEN: EFFLUENT WEIR

Semi-Vol:

- 1) *NOTE - Upon examination of this extract by GC/MS it was noted that ion M/Z=266 was present at approximately the correct retention time for the compound PCP. The reported concentration was calculated using the relative abundance of this ion. However, NO representative mass spectrum and NO library match could be made for the compound Pentachlorophenol. Therefore, there can be no positive identification of this compound. The reported results are far below the MQL (50 ug/L) for the compound.
- 2) This extract is grossly contaminated with PAHs. JES

Validation Date: 07/11/2007

Validated By: 

Print Date: 07/12/2007

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Office of Pollution Control
1542 Old Whitfield Road
Pearl, MS 39208
601-664-3900

COMPLIANCE MONITORING REPORT

To: LARRY HAMIL RANDY JONES	QA Type: Date Collected: 03/15/2006 Time Collected: 10:45 Sample Collector: RJONES To Lab: DOUGLAS Sample Type: WASTEWATER Received By: TAMMY SAWYER LIMS Login Date: 03/15/2006 LIMS Login Time: 07:26 COC Date: 03/16/2006 COC Time: 1044 Project: 5700 Study: COMPLIANCE Reporting Date: 04/07/2006
Sample ID: AA30559 Facility Name: KERR MCGEE CHEMICAL CORPORATION COLUMBUS Sampling Loc: EFFLUENT Site ID: C0870001 Discharge No: MSP090021-001 Other No: Permit No: MSP090021 Latitude: Longitude: County: 087 LOWNDES	

ANALYTE	METHOD	RESULT	UNIT	MDL	ANALYST	ANALYSIS	ANALYSIS
						START DATE	END DATE
Flow mgd		0.0525	MGD	0	RGJ	3/15/06	3/15/06
pH, Field Measurement	150.1	6.63	pH units		RGJ	3/15/06	3/15/06
Temperature, Water (deg C)	170.1	17.0	deg C	0	RGJ	3/15/06	3/15/06
Arsenic, Total (ug/L as As)	200.7	22.6	ug/L	2.2	BB	3/22/06	3/22/06
Chromium, Total (ug/L as Cr)	200.7	ND	ug/L	0.53	BB	3/20/06	3/20/06
Copper, Total (ug/L as Cu)	200.7	ND	ug/L	0.52	BB	3/20/06	3/20/06
Pentachlorophenol	8270	N.D.	µg/L	500	JES	3/22/06	3/28/06
Oil & Grease, Total Hexane (mg/l)	1664	33.7	mg/L	5	JM	3/21/06	3/21/06
Phenols, Total Recoverable (mg/L)	420.1	0.80	mg/L	0.05	KF	3/17/06	3/17/06

ABBREVIATIONS / DEFINITIONS

ug/L: micrograms/Liter
mg/L: milligrams/Liter
mg/kg: milligrams/
kilogram
ug/g: micrograms/gram
ppm: parts per million
ppb: parts per billion

<: less than
MCL: Maximum Contaminant Level
MDL: Method Detection Limit
LSPC: result less than lower specification
USPC: result greater than upper specification
TIE: Tentatively Identified or Estimated
>: greater than
z: surrogate

COC Date: Date Chain of Custody Signed
COC Time: Time Chain of Custody Signed

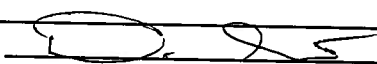
SAMPLE COMMENTS:

ENVIRONMENT CONDITION: INSIDE BUILDING

WHERE TAKEN: EFFLUENT WEIR

Semi-Vol:

- 1) This extract is highly contaminated with PAH's. Six of them are at concentrations exceeding 1000 ug/L.
- 2) The total ion chromatogram contains the $m/z = 266$ ion indicative of pentachlorophenol however no representative mass spectrum of pentachlorophenol could be obtained from the data, and no library match could be made. JES

Approved By: 

Lab Bench No.

(A.I: 1696)

II. SAMPLE IDENTIFICATION:
 Environment Condition Inside Building
 Where Taken Effluent weir

Type	Parameters	Preservative	Date	Time
1. GRAB	OIL & GREASE	H ₂ O	03-15-2006	1045
2. GRAB	TOTAL PHOSPHORUS (sm)	H ₂ SO ₄	03-15-2006	1045
3 Comp. GRAB RB5	CE AS Cu	HNO ₃	03-15-2006	1045
4. GRAB	PENTACHLOROPHENOL (sm)	CH ₃ OH	03-15-2006	1045
5. FIELD				

Analysis	Computer Code	Request	Results	Analyst	Date
pH 8.5-9.5	(000400)	☒	6.63 S.U.	R6J	03-15-20
D.O.	(000300)	☒			
Temperature	(000010)	☒	17.0°C	R6J	03-15-20
Residual Chlorine	(050060)	☒			
Flow	(074060)	☒	0.0525 m60	R6J	03-15-20
TRANSPORTATION OF SAMPLE: dBus () PO Vehicle ()					

IV. TRANSPORTATION OF SAMPLE: Bus () RO Vehicle () Other () RG-5 03-15-20

V. LABORATORY: Received By Terry Sawyer Date 3/16/06 Time 1074
Recorded By _____ Date Sent to State Office _____

[illegible]

Remarks

*Date of Test Initiation

30559



KERR-McGEE CHEMICAL LLC
POST OFFICE BOX 690 • TEXARKANA, TEXAS 75504

June 13, 2005

RECEIVED
JUN 17 2005
Dept. of Environmental Quality
Office of Pollution Control

Mississippi Department of Environmental Quality
Bureau of Pollution Control
Attn: Mr. Larry Hamil
P.O. Box 10385
Jackson, Ms 39289-0385

Re: May 2005 - Wastewater DMR
Kerr McGee Chemical LLC
Columbus, Ms
Permit No. MSP090021



Dear Mr. Hamil

Attached please find the Discharge Monitoring Report (DMR) For the month of May, 2005. With the changes at the plant from an operating to a decommissioned site, the DMR's will be issued from Oklahoma City with me, Steve Ladner, Project Manager or Dickie Allison, Environmental Specialist, as the authorized agent.

Please feel free to contact me, Steve Ladner at (405) 270-2625 if you have any further questions.

Sincerely,

KERR McGEE CHEMICAL LLC
FOREST PRODUCT DIVISION

Richard D. Allison
Environmental Specialist

Cc: Steve Ladner, KMC Oklahoma City, Ok
Roland Hill, KMC Columbus, Ms



KMCC - FPD Facility - Columbus, MS

Month: May. 05

Permit Requirement
Unit of Measurement

O&G	PHENOLS	pH
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XX

DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	44,188					
2	49,551					6.9
3	49,601					
4	49,773					
* 5	48,113	6	2.4	8.5	3.4	
6	45,967					
7	45,968					
8	45,968					
9	44,654					6.7
10	45,065					
11	47,846					
12	44,456					
13	45,046					
14	45,046					
15	45,046					
16	47,047					7
17	46,124					
18	43,314					
19	45,670					
20	44,907	5	1.9	13	4.9	
21	44,907					
22	44,906					
23	44,198					6.8
24	44,767					
25	37,197					
26	46,542					
27	47,429					
28	47,429					
29	47,428					
30	47,200					6.8
31	46,222					
Avg.	45,857	5.5	2.15	10.75	4.15	6.84
Max.	49,773	6	2.4	13	4.9	7
Min.	37,197	5	1.9	8.5	3.4	6.7

* Sampled three times, in the month of April. Failed to sample twice in the month of May. Using the Analytical from 4/27/05, Flow 48,432 gals.

Russell Allport / Environmental Specialist

May 26, 2005

ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS00023

Kerr McGee Chemical-Forest Prod Div.
Attn: Ronald Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
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3364

Effluent

5/20/2005

TOTAL PHENOLS

13.00mg/l

420.1

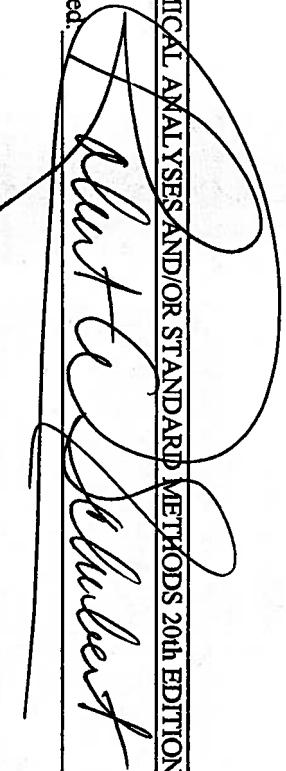
OIL & GREASE

5 mg/l

1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved.



Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 3364

Client: Kell mg/ae

Sample Description: Effluent weir Comp. Hr. Grab

Residual Cl pH DO Temp Flow

Collected by: L.P. / mi Date: 5/20/05 Time: 7:10 am pm

Turn around Time: Normal Rush Specify Date

Hazard Identification: Non Hazard Skin Irritant
 Flammable Unknown

Matrix: Water/Wastewater Other Ground Water
(Description)

Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:

Requested Lab Analyses:

			Metals	Other
pH <u> </u>	Carb BOD <u> </u>	TKN <u> </u>	<u> </u>	<u> </u>
DO <u> </u>	Fecal <u> </u>	TOP <u> </u>	<u> </u>	<u> </u>
BOD <u> </u>	Ammonia-N <u> </u>	Nitrate <u> </u>	<u> </u>	<u> </u>
TSS <u> </u>	<u>Oil & Grease</u>	<u>Phenols</u>	<u> </u>	<u> </u>
COD <u> </u>	Alkalinity <u> </u>	<u>Res Cl</u>	<u> </u>	<u> </u>

Relinquished by:	Date/Time	Received by:	Date/Time
<u>L.P. / mi</u>	<u>5/20/05 7:10 AM</u>	<u>Nellie Mc</u>	<u>5/20/05 11:00</u>

Relinquished by:	Date/Time	Received by:	Date/Time
<u>[Signature]</u>	<u>5/20/05 11:30</u>	<u>LAB</u>	<u>5/20/05 11:20</u>

(For Lab use only)

Client:

Received by: Date Time am pm

Sample Container:	Quantity	Type	Size	Preserve
	<u>2</u>	<u>G P</u>	<u>1 L</u>	<u>Ice, Ice & H2SO4, NaOH, HNO3</u>
	<u> </u>	<u>G P</u>	<u>500 ml</u>	<u>Ice; Ice & H2SO4, NaOH, HNO3</u>
	<u> </u>	<u>G P</u>	<u>250 ml</u>	<u>Ice; Ice & H2SO4, NaOH, HNO3</u>
Thiosulfate Present Y N	<u> </u>	<u>G P</u>	<u>125 ml</u>	<u>Ice; Ice & H2SO4, NaOH, HNO3</u>
	<u> </u>	<u>G A</u>	<u>40 ml vial</u>	<u>Ice</u>

Sample Condition Upon Receipt: Temp Deg. C. 4

Preserved Y N
Proper Container Y N

Sample Disposal: Return to Client Disposal by Lab X Archive

May 02, 2005

ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS000023

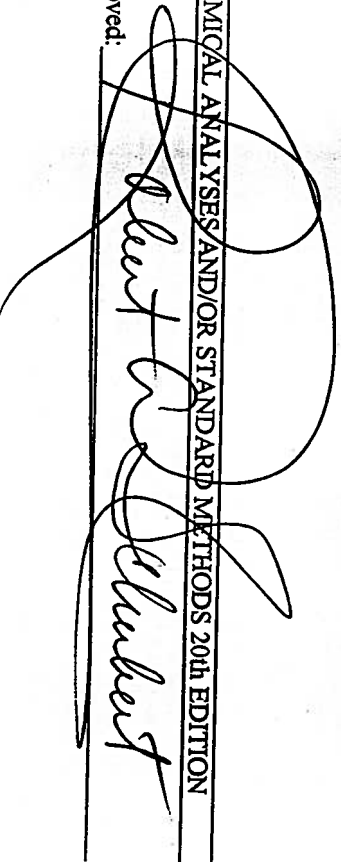
Kerr McGee Chemical-Forest Prod Div.
Attn: Ronald Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
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3110	Effluent	4/27/2005	TOTAL PHENOLS	8.50mg/l			420.1
			OIL & GREASE	6 mg/l			1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved: _____



Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 3910

Client: Kell McGee

Sample Description: EFFLUENT Well Comp. Hr. Grab

Residual Cl pH DO Temp Flow

Collected by: L.L. / L Date: 4/27/05 Time: 7:10 am pm

Turn around Time: Normal Rush Specify Date

Hazard Identification: Non Hazard Flammable Skin Irritant Unknown

Matrix: Water/Wastewater Other GROUND WATER
(Description)

Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:

Requested Lab Analyses:

	Metals	Other
pH <u> </u>		
DO <u> </u>		
BOD <u> </u>		
TSS <u> </u>		
COD <u> </u>		
Carb BOD <u> </u>		
Fecal <u> </u>		
Ammonia-N <u> </u>		
<u>Oil & Grease</u>		
Alkalinity <u> </u>		
TKN <u> </u>		
TOP <u> </u>		
Nitrate <u> </u>		
<u>Phenols</u>		
Res Cl <u> </u>		

Relinquished by:	Date/Time	Received by:	Date/Time
<u>L.L. / L</u>	<u>4/27/05 7:10 AM</u>	<u>[Signature]</u>	<u>4/27/05 7:50</u>
<u>[Signature]</u>	<u>4/27/05 9:15</u>	<u>LAB</u>	<u>4/27/05 9:15</u>

(For Lab use only)

Client:

Received by: Date Time am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G</u> P	<u>1 L</u>	<u>Ice; Ice & H2SO4</u>		
		<u>G</u> P	<u>500 ml</u>	<u>Ice; Ice & H2SO4</u>		
		<u>G</u> P	<u>250 ml</u>	<u>Ice; Ice & H2SO4</u>		
		<u>G</u> P	<u>125 ml</u>	<u>Ice; Ice & H2SO4</u>		
		<u>G</u> A	<u>40 ml vial</u>	<u>Ice</u>		

Sample Condition Upon Receipt: Temp Deg. C. 4

Preserved Y N
Proper Container Y N

Sample Disposal: Return to Client Disposal by Lab X Archive

Lowardes Co



KERR-MCGEE CHEMICAL LLC
POST OFFICE BOX 690 • TEXARKANA, TEXAS 75504

June 13, 2005

RECEIVED
JUN 17 2005
Dept. of Environmental Quality
Office of Pollution Control

Mississippi Department of Environmental Quality
Bureau of Pollution Control
Attn: Mr. Larry Hamil
P.O. Box 10385
Jackson, Ms 39289-0385

Re: May 2005 - Wastewater DMR
Kerr McGee Chemical LLC
Columbus, Ms
Permit No. MSP090021

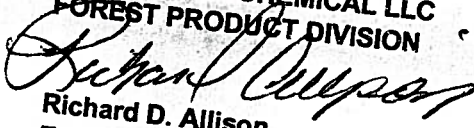
Dear Mr. Hamil

Attached please find the Discharge Monitoring Report (DMR) For the month of May, 2005. With the changes at the plant from an operating to a decommissioned site, the DMR's will be issued from Oklahoma City with me, Steve Ladner, Project Manager or Dickie Allison, Environmental Specialist, as the authorized agent.

Please feel free to contact me, Steve Ladner at (405) 270-2625 if you have any further questions.

Sincerely,

KERR MCGEE CHEMICAL LLC
FOREST PRODUCT DIVISION


Richard D. Allison
Environmental Specialist

Cc: Steve Ladner, KMC Oklahoma City, Ok
Roland Hill, KMC Columbus, Ms



Sept. 3, 2009

ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
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3784

Effluent

8/21/2009

TOTAL PHENOLS

<0.01 mg/l

625

OIL & GREASE

6 mg/l

1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved: _____



Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 3784Client: THE NOX LLCSample Description: EFFluent w/1 Comp. Hr. Grab

Residual Cl _____ pH _____ DO _____ Temp _____ Flow _____

Collected by: LLH Date: 8/21/09 Time: 6:30 am pm

Turn around Time: Normal _____ Rush _____ Specify Date _____

Hazard Identification: Non-Hazard Skin Irritant
Flammable UnknownMatrix: Water/Wastewater Other effluent water
(Description)

Calibrations: pH Meter Buffers _____ Date: _____ Time: _____ DO Meter: Date _____ Time: _____

Requested Lab Analyses:

		Metals	Other
pH _____	Carb BOD _____	TKN _____	_____
DO _____	Fecal _____	TOP _____	_____
BOD _____	Ammonia-N _____	Nitrate _____	_____
TSS _____	<u>Oil & Grease</u> _____	<u>Phenols</u> _____	_____
COD _____	Alkalinity _____	Res Cl _____	_____

Relinquished by:	Date/Time	Received by:	Date/Time
<u>LLH</u>	<u>8/21/09 6:30 AM</u>	<u>Nalini M. Dew</u>	<u>8/21/09 7:30</u>

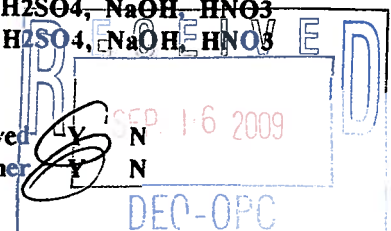
Relinquished by:	Date/Time	Received by:	Date/Time
<u>[Signature]</u>	<u>8/21/09 9:25</u>	<u>LH</u>	<u>8/21/09 9:25</u>

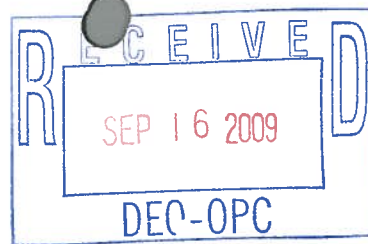
(For Lab use only)

Client: _____

Received by: _____ Date _____ Time _____ am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G</u> P	1 L	Ice; <u>Ice & H2SO4</u>		NaOH, HNO3
	_____	G P	500 ml	Ice; Ice & H2SO4		NaOH, HNO3
	_____	G P	250 ml	Ice; Ice & H2SO4		NaOH, HNO3
Thiosulfate Present Y N	_____	G P	125 ml	Ice; Ice & H2SO4		NaOH, HNO3
	_____	G A	40 ml vial	Ice		

Sample Condition Upon Receipt: Temp Deg. C. 4Preserved _____
Proper Container _____Sample Disposal: Return to Client _____ Disposal by Lab X Archive _____



KMCC - FPD Facility - Columbus, MS

Month: August. 2009

Permit Requirement
Unit of Measurement

O&G	PHENOLS	pH
-----	---------	----

XX

DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	53,600					
2	53,600					
3	51,400					6.4
4	50,800					
5	51,900					
6	50,800					
7	49,633	6	2.48	<0.01	0.004	
8	49,633					
9	49,634					
10	43,100					6.6
11	52,300					
12	50,500					
13	49,000					
14	49,000					
15	49,000					
16	49,000					
17	48,400					6.5
18	47,600					
19	48,600					
20	52,600					
21	50,666	6	2.53	<0.01	0.004	
22	50,667					
23	50,667					
24	42,400					6.5
25	51,200					
26	49,900					
27	44,500					
28	45,666					
29	45,667					
30	45,667					
31	43,400					6.4
Avg.	49,048	6	2.51	<0.01	0.004	6.48
Max.	53,600	6	2.53	<0.01	0.004	6.6
Min.	42,400	6	2.48	<0.01	0.004	6.4



KMCC - FPD Facility - Columbus, MS

Month: July. 2009

Permit Requirement
Unit of Measurement

O&G	PHENOLS	pH
-----	---------	----

XX

DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	51,400					
2	7,600					
3	0					
4	0					
5	0					
6	0					
7	53,400					
8	61,400					6.5
9	56,600					
10	54,400	6	2.72	<0.005	0.002	
11	54,400					
12	54,400					
13	52,900					
14	52,100					6.5
15	52,900					
16	45,600					
17	52,166	6	2.61	<0.001	0.0004	
18	52,167					
19	52,167					
20	51,200					6.5
21	51,800					
22	35,000					
23	16,100					
24	26,733					
25	26,733					
26	26,734					
27	61,400					6.3
28	56,100					
29	54,400					
30	53,700					
31	53,600					
Avg.	40,874	6	2.67	<0.003	0.0012	6.45
Max.	61,400	6	2.72	<0.005	0.002	6.5
Min.	0	6	2.61	<0.001	0.0004	6.3

July 21, 2009

ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
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3499

Effluent

7/10/2009

TOTAL PHENOLS

<0.005 mg/l

625

OIL & GREASE

6 mg/l

1664



***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved:

[Signature]

Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

3499
Lab I.D. # 3499

Client: Therox LLC

Sample Description: Effluent Wt. Comp. Hr. Grab

Residual Cl pH DO Temp Flow

Collected by: AL /ul Date: 7/10/09 Time: 7:00 am pm

Turn around Time: Normal Rush Specify Date

Hazard Identification: Non Hazard Flammable Skin Irritant Unknown

Matrix: Water/Wastewater Other Ground Water
(Description)

Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:

Requested Lab Analyses:

			Metals	Other
pH <u> </u>	Carb BOD <u> </u>	TKN <u> </u>	<u> </u>	<u> </u>
DO <u> </u>	Fecal <u> </u>	TOP <u> </u>	<u> </u>	<u> </u>
BOD <u> </u>	Ammonia-N <u> </u>	Nitrate <u> </u>	<u> </u>	<u> </u>
TSS <u> </u>	<u>Oil & Grease</u>	<u>Phenols</u>	<u> </u>	<u> </u>
COD <u> </u>	Alkalinity <u> </u>	Res Cl <u> </u>	<u> </u>	<u> </u>

Relinquished by: AL /ul Date/Time: 7/10/09 - 7:00 AM Received by: William Date/Time: 7/10/09 7:45

Relinquished by: AL Date/Time: 7/10/09 8:40 Received by: LAB Date/Time: 7/10/09 8:40

(For Lab use only)

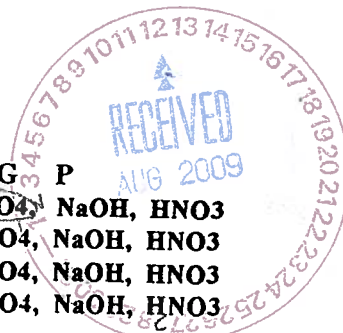
Client:

Received by: Date Time am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>7</u>	<u>G</u> <u>P</u>	<u>1 L</u>	<u>Ice; Ice & H2SO4</u>	<u>NaOH</u>	<u>HNO3</u>
	<u> </u>	<u>G</u> <u>P</u>	<u>500 ml</u>	<u>Ice; Ice & H2SO4</u>	<u>NaOH</u>	<u>HNO3</u>
	<u> </u>	<u>G</u> <u>P</u>	<u>250 ml</u>	<u>Ice; Ice & H2SO4</u>	<u>NaOH</u>	<u>HNO3</u>
Thiosulfate Present Y N	<u> </u>	<u>G</u> <u>P</u>	<u>125 ml</u>	<u>Ice; Ice & H2SO4</u>	<u>NaOH</u>	<u>HNO3</u>
	<u> </u>	<u>G</u> <u>A</u>	<u>40 ml vial</u>	<u>Ice</u>		

Sample Condition Upon Receipt: Temp Deg. C. 4

Preserved Y N



July 28, 2009

ENVIRO-LABS, INC.
608 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

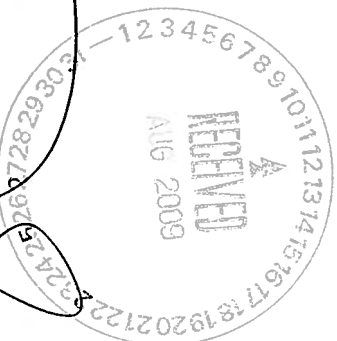
Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
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3539	Effluent	7/17/2009	TOTAL PHENOLS	<0.001 mg/l			625
			OIL & GREASE	6 mg/l			1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved: _____

Albert L. Hester



Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 3539

Client: Thermax LLC

Sample Description: Effluent w/Comp. 6:30 AM Hr.

Grab

Residual Cl _____ pH _____ DO _____ Temp _____ Flow _____

Collected by: Lab 1/1 Date: 7/17/09 Time: 6:30 AM am pm

Turn around Time: Normal _____ Rush _____ Specify Date _____

Hazard Identification: Non Hazard Flammable Skin Irritant Unknown

Matrix: Water/Wastewater Other ground water
(Description)

Calibrations: pH Meter Buffers _____ Date: _____ Time: _____ DO Meter: Date _____ Time: _____

Requested Lab Analyses:

			Metals	Other
pH _____	Carb BOD _____	TKN _____	_____	_____
DO _____	Fecal _____	TOP _____	_____	_____
BOD _____	Ammonia-N _____	Nitrate _____	_____	_____
TSS _____	<u>Oil & Grease</u> _____	<u>Phenols</u> _____	_____	_____
COD _____	Alkalinity _____	Res Cl _____	_____	_____

Relinquished by: Lab 1/1 Date/Time: 7/17/09 6:30 AM Received by: Nullip Date/Time: 7/17/09 8:10

Relinquished by: Lab 1/1 Date/Time: 7/17/09 9:10 Received by: LAB Date/Time: 7/17/09 9:10

(For Lab use only)

Client: _____

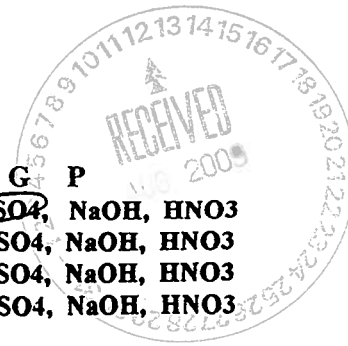
Received by: _____ Date _____ Time _____ am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G</u> P	1 L	Ice: Ice & H2SO4	<u>X</u>	<u>X</u>
	_____	G P	500 ml	Ice: Ice & H2SO4	<u>X</u>	<u>X</u>
	_____	G P	250 ml	Ice: Ice & H2SO4	<u>X</u>	<u>X</u>
Thiosulfate Present Y N	_____	G P	125 ml	Ice: Ice & H2SO4	<u>X</u>	<u>X</u>
	_____	G A	40 ml vial	Ice	<u>X</u>	<u>X</u>

Sample Condition Upon Receipt: Temp Deg. C. 4

Preserved Y N
Proper Container Y N

Sample Disposal: Return to Client _____ Disposal by Lab X Archive _____



TRONOX

July 20, 2009

Mississippi Department of Environmental Quality
Bureau of Pollution Control
Attn: Larry Hamil
P.O. Box 2261
Jackson, Ms 39225-2261

Re: June, 2009 – Wastewater DMR
Tronox LLC
Columbus, Ms
Permit No. MSP090021

Dear Mr. Hamil

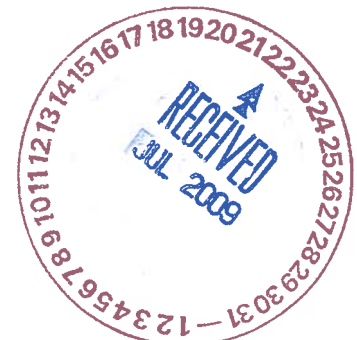
Attached please find the Discharge Monitoring Report (DMR) for the month of June, 2009. With the changes at the plant from an operating to a decommissioned site, the DMR's will be issued from Oklahoma City with me, Robert Pounds, Project Manager or Richard Allison, Environmental Specialist as the authorized agent.

Please feel free to contact me, Robert Pounds at (405) 775-5168 if you have any further Questions.

Sincerely,

Tronox LLC

Richard Allison
Environmental Specialist



Tronox LLC

123 Robert S. Kerr Avenue, Oklahoma City, Oklahoma 73102 • P.O. Box 268859, Oklahoma City, Oklahoma 73126-8859



KMCC - FPD Facility - Columbus, MS

Month: June. 2009

Permit Requirement
Unit of Measurement

O&G	PHENOLS	pH
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XX

DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	57,000					6.7
2	52,000					
3	55,900					
4	56,500					
5	55,466	6	2.77	<0.01	0.005	
6	55,467					
7	55,467					
8	53,100					7.1
9	54,100					
10	51,800					
11	54,500					
12	44,200					
13	44,200					
14	44,200					
15	56,100					7.2
16	56,100					
17	25,000					
18	26,200					
19	37,633	6	1.88	<0.01	0.003	
20	37,633					
21	37,634					
22	53,200					7.1
23	49,300					
24	51,300					
25	50,600					
26	54,000					
27	54,000					
28	54,000					
29	53,600					6.8
30	52,700					
31						
Avg.	49,430	6	2.33	<0.01	0.004	6.98
Max.	57,000	6	2.77	<0.01	0.005	7.2
Min.	25,000	6	1.88	<0.01	0.003	6.7

June 16, 2009

ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-824-1745 (& FAX)
USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
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3238	Effluent	6/5/2009	TOTAL PHENOLS	<0.01 mg/l			625
			OIL & GREASE	6 mg/l			1664



***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved: _____

[Signature]

Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 3238



Client: THORX LLC.

Sample Description: FF-1022T Well Comp. Hr. Grab

Residual Cl _____ pH _____ DO _____ Temp _____ Flow _____

Collected by: L.L. Wei Date: 6/5/09 Time: 6:45 am pm

Turn around Time: Normal _____ Rush _____ Specify Date _____

Hazard Identification: Non Hazard Flammable Skin Irritant Unknown

Matrix: Water/Wastewater Other THORX WATER
(Description)

Calibrations: pH Meter Buffers _____ Date: _____ Time: _____ DO Meter: Date _____ Time: _____

Requested Lab Analyses:

			Metals	Other
pH _____	Carb BOD _____	TKN _____	_____	_____
DO _____	Fecal _____	TOP _____	_____	_____
BOD _____	Ammonia-N _____	Nitrate _____	_____	_____
TSS _____	<u>Oil & Grease</u> _____	<u>Phenols</u> _____	_____	_____
COD _____	Alkalinity _____	Res Cl _____	_____	_____

Relinquished by:	Date/Time	Received by:	Date/Time
<u>L.L. Wei</u>	<u>6/5/09 6:45</u>	<u>[Signature]</u>	<u>6/5/09 8:20</u>

Relinquished by:	Date/Time	Received by:	Date/Time
<u>[Signature]</u>	<u>6/5/09 9:32</u>	<u>LWB</u>	<u>6/5/09 9:30</u>

(For Lab use only)

Client: _____

Received by: _____ Date _____ Time _____ am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G P</u>	1 L	Ice; Ice & H2SO4, NaOH, HNO3		
	_____	G P	500 ml	Ice; Ice & H2SO4, NaOH, HNO3		
	_____	G P	250 ml	Ice; Ice & H2SO4, NaOH, HNO3		
Thiosulfate Present Y N	_____	G P	125 ml	Ice; Ice & H2SO4, NaOH, HNO3		
	_____	G A	40 ml vial	Ice		

Sample Condition Upon Receipt: Temp Deg. C. 4

Preserved Y N
Proper Container Y N

Sample Disposal: Return to Client Disposal by Lab Archive

July 07, 2009

ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-823-7744
1-662-324-1745 (& FAX)
USEPA LAB CODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
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3362

Effluent

6/19/2009

TOTAL PHENOLS

<0.01 mg/l

625

OIL & GREASE

6 mg/l

1664



***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved:

Robert C. Delbert

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 3362

Client: Thermax LLC

Sample Description: EFFluent Water Comp. _____ Hr. Grab

Residual Cl _____ pH _____ DO _____ Temp _____ Flow _____

Collected by: L.L. Hul Date: 6/19/09 Time: 7:20 am pm

Turn around Time: Normal _____ Rush _____ Specify Date _____

Hazard Identification: Non Hazard Flammable Skin Irritant Unknown

Matrix: Water/Wastewater Other GLOWN WATER
(Description)

Calibrations: pH Meter Buffers _____ Date: _____ Time: _____ DO Meter: Date _____ Time: _____

Requested Lab Analyses:

		Metals	Other
pH _____	Carb BOD _____	TKN _____	_____
DO _____	Fecal _____	TOP _____	_____
BOD _____	Ammonia-N _____	Nitrate _____	_____
TSS _____	<u>Oil & Grease</u> _____	<u>Phenols</u> _____	_____
COD _____	Alkalinity _____	Res Cl _____	_____

Relinquished by: <u>L.L. Hul</u>	Date/Time: <u>6/19/09 7:20 AM</u>	Received by: <u>[Signature]</u>	Date/Time: <u>6/19/09 8:00</u>
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Relinquished by: <u>[Signature]</u>	Date/Time: <u>6/19/09 8:45</u>	Received by: <u>[Signature]</u>	Date/Time: <u>6/19/09 9:45</u>
-------------------------------------	--------------------------------	---------------------------------	--------------------------------

(For Lab use only)

Client: _____

Received by: _____ Date: _____ Time: _____ am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G P</u>	<u>1 L</u>	Ice; Ice & H2SO4		<u>NaOH, HNO3</u>
	_____	<u>G P</u>	<u>500 ml</u>	Ice; Ice & <u>H2SO4</u>		<u>NaOH, HNO3</u>
	_____	<u>G P</u>	<u>250 ml</u>	Ice; Ice & <u>H2SO4</u>		<u>NaOH, HNO3</u>
Thiosulfate Present Y N	_____	<u>G P</u>	<u>125 ml</u>	Ice; Ice & <u>H2SO4</u>		<u>NaOH, HNO3</u>
	_____	<u>G A</u>	<u>40 ml vial</u>	Ice		

Sample Condition Upon Receipt: Temp Deg. C. 4

Preserved Y N
Proper Container Y N

Sample Disposal: Return to Client Disposal by Lab Archive



April 15, 2009

ENVIRO-LABS, INC.
608 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-823-7244
1-662-824-1745 (& FAX)
USEPA LAB CODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
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2701	Effluent	4/3/2009	TOTAL PHENOLS	<0.01 mg/l			625
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	OIL & GREASE		7 mg/l				1664
--	--------------	--	--------	--	--	--	------



***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved: _____

[Signature]

Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 2701Client: Thermax LLCSample Description: Effluent w/ik Comp. Hr. Grab

Residual Cl _____ pH _____ DO _____ Temp _____ Flow _____

Collected by: L.L. Hill Date: 4/3/09 Time: _____ am pm

Turn around Time: Normal _____ Rush _____ Specify Date _____

Hazard Identification:

Non Hazard
FlammableSkin Irritant
UnknownMatrix: Water/WastewaterOther Ground Water
(Description)

Calibrations: pH Meter Buffers _____ Date: _____ Time: _____ DO Meter: Date _____ Time: _____

Requested Lab Analyses:

			Metals	(Other)
pH _____	Carb BOD _____	TKN _____	_____	_____
DO _____	Fecal _____	TOP _____	_____	_____
BOD _____	Ammonia-N _____	Nitrate _____	_____	_____
TSS _____	<u>Oil & Grease</u> _____	<u>Phenols</u> _____	_____	_____
COD _____	Alkalinity _____	Res Cl _____	_____	_____

Relinquished by: _____ Date/Time _____

L.L. Hill 4/3/09

Received by: _____ Date/Time _____

N. Hill 4/3/09 8:30

Relinquished by: _____ Date/Time _____

L.L. Hill 4/3/09 9:30

Received by: _____ Date/Time _____

L.A.S. 4/3/09 9:30

(For Lab use only)

Client: _____

Received by: _____ Date _____ Time _____ am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G</u> P	1 L	Ice; Ice & H2SO4, NaOH, HNO3		
	_____	G P	500 ml	Ice; Ice & H2SO4, NaOH, HNO3		
	_____	G P	250 ml	Ice; Ice & H2SO4, NaOH, HNO3		
Thiosulfate Present Y N	_____	G P	125 ml	Ice; Ice & H2SO4, NaOH, HNO3		
	_____	G A	40 ml vial	Ice		

Sample Condition Upon Receipt: Temp Deg. C. 4Preserved Y N
Proper Container Y NSample Disposal: Return to Client Disposal by Lab X Archive _____

April 28, 2009

ENVIRO-LABS, INC.
608 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39260-1096
1-662-822-7244
1-662-824-1245 (& FAX)
EPA LAB CODE: MS000228

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Metho Used
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2818

Effluent

4/17/2009

TOTAL PHENOLS

<0.01 mg/l

625

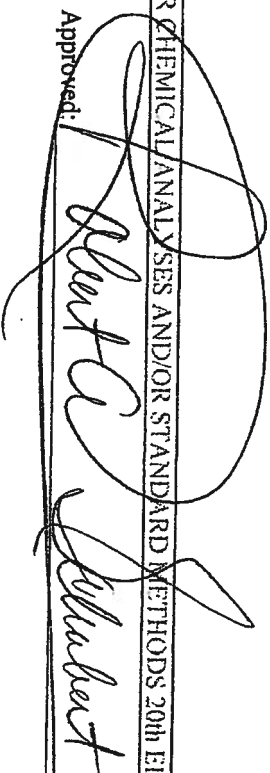
OIL & GREASE

6 mg/l

1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved:



Client: Thermax LLCSample Description: EFFLUENT 201 Comp. Hr. GrabResidual Cl pH DO Temp Flow Collected by: AL Liu Date: 4/17/09 Time: 6:45 am pmTurn around Time: Normal Rush Specify Date

Hazard Identification:

Non Hazard
FlammableSkin Irritant
UnknownMatrix: Water/WastewaterOther Flowed water
(Description)Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:

Requested Lab Analyses:

			Metals	Other
pH <u> </u>	Carb BOD <u> </u>	TKN <u> </u>	<u> </u>	<u> </u>
DO <u> </u>	Fecal <u> </u>	TOP <u> </u>	<u> </u>	<u> </u>
BOD <u> </u>	Ammonia-N <u> </u>	Nitrate <u> </u>	<u> </u>	<u> </u>
TSS <u> </u>	<u>Oil & Grease</u>	<u>Phenols</u>	<u> </u>	<u> </u>
COD <u> </u>	Alkalinity <u> </u>	Res Cl <u> </u>	<u> </u>	<u> </u>

Relinquished by:	Date/Time	Received by:	Date/Time
<u>AL Liu</u>	<u>4/17/09 6:45 AM</u>	<u>[Signature]</u>	<u>4/17/09 9:15</u>

Relinquished by:	Date/Time	Received by:	Date/Time
<u>[Signature]</u>	<u>4/17/09 9:15</u>	<u>[Signature]</u>	<u>4/17/09 9:15</u>

(For Lab use only)

Client: Received by: Date Time am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>1</u>	<u>G</u> P	1 L	Ice; Ice & <u>H2SO4</u> , NaOH, HNO3		
	<u> </u>	<u>G</u> P	500 ml	Ice; Ice & <u>H2SO4</u> , NaOH, HNO3		
	<u> </u>	<u>G</u> P	250 ml	Ice; Ice & <u>H2SO4</u> , NaOH, HNO3		
Thiosulfate Present Y N	<u> </u>	<u>G</u> P	125 ml	Ice; Ice & <u>H2SO4</u> , NaOH, HNO3		
	<u> </u>	<u>G</u> A	40 ml vial	Ice		

Sample Condition Upon Receipt: Temp Deg. C. 4Preserved Y N
Proper Container Y NSample Disposal: Return to Client Disposal by Lab Archive

TRONOX

May 11, 2009

Mississippi Department of Environmental Quality
Bureau of Pollution Control
Attn: Larry Hamil
P.O. Box 2261
Jackson, Ms 39225-2261

Re: April, 2009 – Wastewater DMR
Tronox LLC
Columbus, Ms
Permit No. MSP090021

Dear Mr. Hamil

Attached please find the Discharge Monitoring Report (DMR) for the month of April, 2009. With the changes at the plant from an operating to a decommissioned site, the DMR's will be issued from Oklahoma City with me, Robert Pounds, Project Manager or Richard Allison, Environmental Specialist as the authorized agent.

Please feel free to contact me, Robert Pounds at (405) 775-5168 if you have any further Questions.

Sincerely,

Tronox LLC

Richard Allison
Environmental Specialist

Tronox LLC

123 Robert S. Kerr Avenue, Oklahoma City, Oklahoma 73102 • P.O. Box 268859, Oklahoma City, Oklahoma 73126-8859

KMCC - FPD Facility - Columbus, MS

Month: April. 2009

Permit Requirement
Unit of Measurement

O&G	PHENOLS	pH
-----	---------	----

XX

DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	61,300					
2	63,300					
3	61,500	7	3.59	<0.01	0.005	
4	61,500					
5	61,500					
6	60,200					6.4
7	60,000					
8	59,000					
9	58,500					
10	56,666					
11	56,667					
12	56,667					
13	59,300					6.5
14	57,300					
15	57,600					
16	56,600					
17	56,800	6	2.84	<0.01	0.004	
18	56,800					
19	56,800					
20	57,000					6.5
21	56,200					
22	56,400					
23	55,400					
24	54,066					
25	54,067					
26	54,067					
27	53,300					6.5
28	54,100					
29	53,800					
30	53,200					
31						
Avg.	57,320	6.5	3.22	<0.01	0.0045	6.475
Max.	63,300	7	3.59	<0.01	0.005	6.5
Min.	53,200	6	2.84	<0.01	0.004	6.4

KMCC - FPD Facility - Columbus, MS

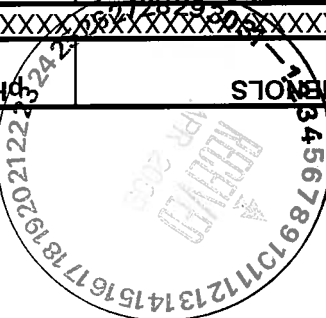
Month: March, 2009

Permit Requirement
Unit of Measurement

O&G	PHENOLS
-----	---------

XX

DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	54,200					
2	55,500					6.4
3	54,900					
4	55,000					
5	54,100					
6	52,800					
7	52,800					
8	52,800					
9	41,200					6.3
10	1,980					
11	38,320					
12	58,100					
13	52,000	6	2.6	<0.01	0.004	
14	52,000					
15	52,000					
16	52,800					6.3
17	50,600					
18	50,500					
19	49,700					
20	49,066	6	2.45	0.12	0.049	
21	49,067					
22	49,067					
23	48,700					6.5
24	50,000					
25	62,600					
26	62,300					
27	58,966					
28	58,967					
29	58,967					
30	62,000					6.4
31	62,400					
Avg.	51,723	6	2.53	0.065	0.027	6.38
Max.	62,600	6	2.6	0.12	0.049	6.5
Min.	1,980	6	2.45	<0.01	0.004	6.3



March 24, 2009

ENVIRO-LABS, INC.
603 CHILDSPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39260-1096
1-662-823-7744
1-662-824-1745 (& FAX)
USEPA LABCODE: MS000223

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used

2539

Effluent

3/13/2009

TOTAL PHENOLS

<0.01 mg/l

625

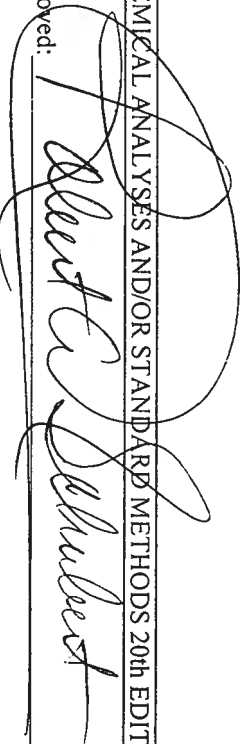
OIL & GREASE

6 mg/l

1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved:



Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 2539

Client: Theresa Lee

Sample Description: EFFluent water Comp. _____ Hr. _____ (Grab)

Residual Cl pH DO Temp Flow

Collected by: VF. Liu Date: 3/30/09 Time: 7:00 am pm

Turn around Time: _____ Normal _____ Rush _____ Specify Date _____

Hazard Identification: Non Hazard Flammable
Skin Irritant Unknown

Matrix:	Water/Wastewater	Other Liquid waste
---------	------------------	--------------------

Calibrations:	pH Meter	Buffers	Date:	Time:	DO Meter:	Date:	Time:

Requested Lab Analyses:

pH	Carb BOD	TKN
DO	Fecal	TOP
BOD	Ammonia-N	Nitrate
TSS	Oil & Grease	Phenols
COD	Alkalinity	Res Cl

Relinquished by:

Date/Time

Received by:

Date/Time

Relinquished by:

Date/Time

Received by:

Date/Time

(For Lab use only)

Client:

Received by: _____
Date _____

Time _____ am pm

Sample Container:

Quantity

Type

Size

Preserve

6

[illegible]

Sample Condition Upon Receipt:

Temp Deg. C. 4

**Preserved
Proper Container**

N
N

Sample Disposal: ☐ Return to C ☐ Disposal by Lab ☒ Archive

March 31, 2009

ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
----------	--------------------	---------------	-----------	---------------	--------------------	------------------------------	-------------

2611	Effluent	3/20/2009	TOTAL PHENOLS	0.12 mg/l			625
			OIL & GREASE	6 mg/l			1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved:

[Signature]



Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 2611

Client: Therco LLC

Sample Description: Fluoride Comp. Grab Hr.

Residual Cl pH DO Temp Flow
Collected by: LT Date: 3/20/09 Time: 6:50 am pm

Turn around Time: Normal Rush Specify Date

Hazard Identification: Non Hazard Flammable
Skin Irritant Unknown

Matrix: Water/Wastewater Other Groundwater

Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:

Requested Lab Analyses:

<u> </u> pH	<u> </u> Carb BOD	<u> </u> TKN	<u> </u> Metals	<u> </u> Other
<u> </u> DO	<u> </u> Fecal	<u> </u> TOP		
<u> </u> BOD	<u> </u> Ammonia-N	<u> </u> Nitrate		
<u> </u> TSS	<u> </u> Oil & Grease	<u> </u> Phenols		
<u> </u> COD	<u> </u> Alkalinity	<u> </u> Res Cl		

Relinquished by: <u>LT</u>	Date/Time: <u>3/20/09 8:00</u>	Received by: <u>LT</u>	Date/Time: <u>3/20/09 9:20</u>
Relinquished by: <u>LT</u>	Date/Time: <u>3/20/09 9:20</u>	Received by: <u>LT</u>	Date/Time: <u>3/20/09 9:20</u>

(For Lab use only)

Client:
Received by: Date Time am pm

Sample Container: 2 Quantity Type Size Preserve G P
Ice: Ice & H2SO4, NaOH, HNO3
Ice: Ice & H2SO4, NaOH, HNO3
Ice: Ice & H2SO4, NaOH, HNO3
Ice: Ice & H2SO4, NaOH, HNO3
Ice: Ice & H2SO4, NaOH, HNO3
Ice: Ice & H2SO4, NaOH, HNO3
Ice: Ice & H2SO4, NaOH, HNO3
Ice: Ice & H2SO4, NaOH, HNO3
Ice: Ice & H2SO4, NaOH, HNO3

Sample Condition Upon Receipt: Temp Deg. C. 4

Preserved Y Proper Container Y

Sample Disposal: Return to Client Disposal by Lab Archive

KMCC - FPD Facility - Columbus, MS

Month: January. 2009

Permit Requirement
Unit of Measurement

O&G	PHENOLS	pH
XX		

DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	56,750					
2	53,566					
3	53,567					
4	53,567					
5	58,300					6.5
6	61,400					
7	64,100					
8	61,200					
9	60,433	6	3.02	<0.01	0.005	
10	60,433					
11	60,434					
12	59,400					6.3
13	57,000					
14	57,500					
15	56,100					
16	56,066					
17	56,067					
18	56,067					
19	55,600					
20	55,100					6.3
21	54,900					
22	53,400					
23	53,500	6	2.68	<0.01	0.004	
24	53,500					
25	53,500					
26	52,800					6.3
27	53,200					
28	53,400					
29	52,600					
30	53,733					
31	53,733					
Avg.	56,159	6	2.85	<0.01	0.0045	6.35
Max.	64,100	6	3.02	<0.01	0.005	6.5
Min.	52,600	6	2.68	<0.01	0.004	6.3

Jan. 20, 2009

ENVIRO-LABS, INC.
608 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS00023

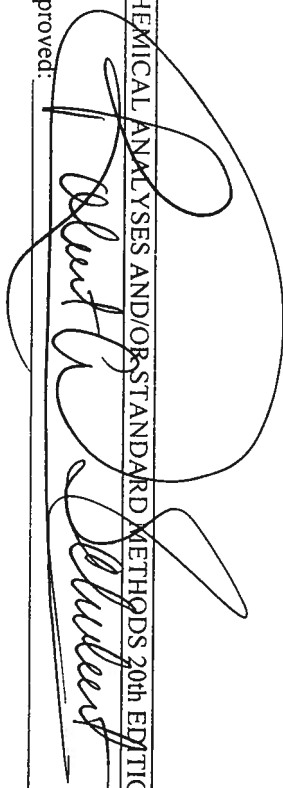
TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
----------	--------------------	---------------	-----------	---------------	--------------------	------------------------------	-------------

2070	Effluent	1/9/2009	TOTAL PHENOLS	<0.01 mg/l			625
			OIL & GREASE	6 mg/l			1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved: _____



Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 2070

Client: Alex L.C.

Sample Description: Effluent w/ 10% Comp.

Grab

Hr.

Residual Cl

pH

DO

Temp

Flow

Collected by: Alex L.C.

Date: 1/9/04

Time: 7:00 am

Turn around Time: Normal

Rush

Specify Date

Hazard Identification:

Non Hazard

Skin Irritant

Unknown

Matrix: Water/Wastewater

Other: Effluent w/ 10% Comp.

Calibrations: pH Meter Buffers

Date:

Time:

DO Meter: Date

Time:

Requested Lab Analyses:

pH

DO

BOD

TSS

COD

Carb BOD

Fecal

Ammonia-N

Oil & Grease

Alkalinity

Res Cl

TKN

TOP

Nitrate

Phenols

Metals

Other

Relinquished by:

Date/Time

Received by:

Date/Time

Relinquished by:

Date/Time

Received by:

Date/Time

(For Lab use only)

Client:

Received by:

Date

Time

am pm

Sample Container:

Quantity

Type

Size

Preserve

G P

1 L Ice; Ice & H2SO4, NaOH, HNO3
500 ml Ice; Ice & H2SO4, NaOH, HNO3
250 ml Ice; Ice & H2SO4, NaOH, HNO3
125 ml Ice; Ice & H2SO4, NaOH, HNO3
40 ml vial Ice; Ice & H2SO4, NaOH, HNO3

Sample Condition Upon Receipt:

Temp Deg. C. 4

Preserved

N

Proper Container

N

Sample Disposal: Return to Client Disposal by Lab Archive

Feb. 5, 2009

ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS00023

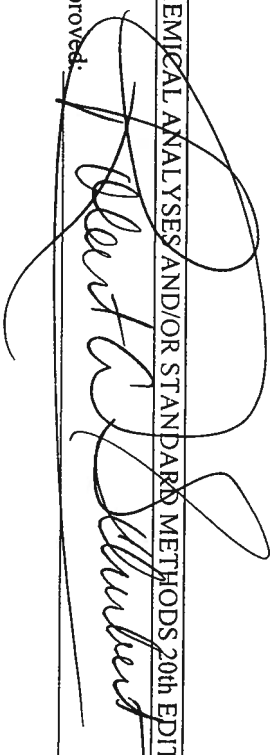
TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
----------	--------------------	---------------	-----------	---------------	--------------------	------------------------------	-------------

2168	Effluent	1/23/2009	TOTAL PHENOLS	<0.01 mg/l			625
			OIL & GREASE	6 mg/l			1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved:



Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 2168

Client: Thermax LLC

Sample Description: Effluent Tank Comp. Hr. Grab

Residual Cl pH DO Temp Flow

Collected by: Jeff Lee Date: 1/3/09 Time: 7:00 am pm

Turn around Time: Normal Rush Specify Date

Hazard Identification: Non Hazard Flammable
Skin Irritant Unknown

Matrix: Water/Wastewater Other Groundwater

Calibrations: pH Meter Buffers Date: Time:
DO Meter: Date Time:

Requested Lab Analyses:

<u> </u> pH	<u> </u> Carb BOD	<u> </u> TKN	<u> </u> Metals	<u> </u> Other
<u> </u> DO	<u> </u> Fecal	<u> </u> TOP	<u> </u> Phenols	<u> </u>
<u> </u> BOD	<u> </u> Ammonia-N	<u> </u> Nitrate	<u> </u>	<u> </u>
<u> </u> TSS	<u> </u> Oil & Grease	<u> </u> Res Cl	<u> </u>	<u> </u>
<u> </u> COD	<u> </u> Alkalinity	<u> </u>	<u> </u>	<u> </u>

Relinquished by: Jeff Lee

Date/Time 1/3/09 7:00 AM

Received by: Jeff Lee

Date/Time 1/3/09 8:10

Relinquished by: Jeff Lee

Date/Time 1/3/09 8:50

Received by: Jeff Lee

Date/Time 1/3/09 8:50

(For Lab use only)

Client:

Received by:

Date

Time am pm

Sample Container:

Quantity 2

Type G P

Size 1 L

Preserve G P

Ice: Ice & H2SO4, NaOH, HNO3

Ice: Ice & H2SO4, NaOH, HNO3

Ice: Ice & H2SO4, NaOH, HNO3

Ice: Ice & H2SO4, NaOH, HNO3

Ice: Ice & H2SO4, NaOH, HNO3

Ice: Ice & H2SO4, NaOH, HNO3

Ice: Ice & H2SO4, NaOH, HNO3

Ice: Ice & H2SO4, NaOH, HNO3

Ice: Ice & H2SO4, NaOH, HNO3

Ice: Ice & H2SO4, NaOH, HNO3

Thiosulfate Present Y N

Sample Condition Upon Receipt:

Temp Deg. C

Preserved Y N

KMCC - FPD Facility - Columbus, MS

Month: December. 2008

Permit Requirement
Unit of Measurement

O&G	PHENOLS	pH
-----	---------	----

XX

DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	35,000					6.7
2	36,000					
3	36,000					
4	38,000					
5	37,666	6	1.88	0.1	0.03	
6	37,667					
7	37,667					
8	36,600					6.9
9	39,900					
10	43,500					
11	46,500					
12	46,833					
13	46,833					
14	46,834					
15	47,500					6.5
16	47,900					
17	49,600					
18	51,100					
19	50,966	6	2.55	<0.1	0.04	
20	50,967					
21	50,967					
22	50,000					6.7
23	51,800					
24	51,150					
25	51,150					
26	49,900					
27	49,900					
28	49,900					
29	54,300					6.7
30	56,000					
31	56,750					
Avg.	46,285	6	2.22	0.1	0.035	6.7
Max.	56,750	6	2.55	0.1	0.04	6.9
Min.	35,000	6	1.88	0.1	0.03	6.5

Dec. 18, 2008

ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-823-7744
1-662-824-1745 (& FAX)
USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
----------	--------------------	---------------	-----------	---------------	--------------------	------------------------------	-------------

3926

Effluent

12/5/2008

TOTAL PHENOLS

0.1 mg/l

24007-625

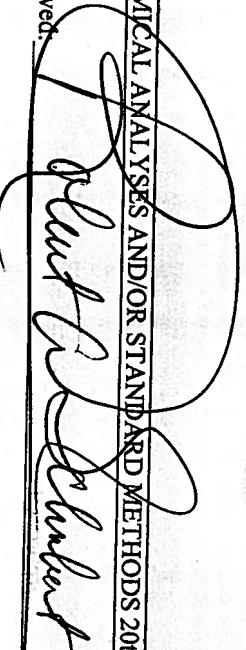
OIL & GREASE

6 mg/l

127-100-1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved:



Client: Thermax LLC

Sample Description:

Comp. Grab Hr.

Residual Cl DO pH Temp Flow
Collected by: LFW Date: 12-08 Time: 9:00am pm

Turn around Time: Normal Rush Specify Date

Hazard Identification:

Non Hazard
Flammable

Unknown
Skin Irritant

Matrix: Water/Wastewater Other

Calibrations: pH Meter Buffers Date: Time: DO Meter Date: Time: (Description)

Requested Lab Analyses:

PH	Carb BOD	TKN	Metals	Other
DO	Fecal	TOP		
BOD	Ammonia-N	Nitrate		
TSS	<u>Oil & Grease</u>	<u>Phenols</u>		
COD	Alkalinity	Res Cl		

Relinquished by:

Date/Time

Received by:

Date/Time

Relinquished by:

Date/Time

Received by:

Date/Time

(For Lab use only)

Client:

Received by:

Date

Time am pm

Sample Container:

Quantity

Type

Size

Preserve

G P

Thiosulfate Present Y N
Temp Deg. C 4
Sample Condition Upon Receipt:
Preserved Y N
Proper Container Y N
Archive

Ice 40 ml vial
Ice 125 ml
Ice 250 ml
Ice 500 ml
Ice 1 L
Ice & H2SO4, NaOH, HNO3
Ice & H2SO4, NaOH, HNO3
Ice & H2SO4, NaOH, HNO3
Ice & H2SO4, NaOH, HNO3
Ice & H2SO4, NaOH, HNO3

Dec. 31, 2008

ENVIRO-LABS, INC.
608 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-2744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
----------	--------------------	---------------	-----------	---------------	--------------------	------------------------------	-------------

4067	Effluent	12/19/2008	TOTAL PHENOLS	<0.1 mg/l			625
			OIL & GREASE	6 mg/l			1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved: _____

[Signature]



Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 4067

Client: 77000 X LLC.

Sample Description: EFFluents/Comp. HR.

Residual Cl pH DO Temp Flow

Collected by: RF. Lee Date: 12/19/01 Time: 7:00 am pm

Turn around Time: Normal Rush Specify Date

Hazard Identification:

~~Non Hazard~~
~~Flammable~~

Skin Irritant

Matrix:

~~Other~~

Calibrations: pH Meter Buffers Date: Time: DO Meter: Date: Time:

Requested Lab Analyses:

_____ COD
_____ TSS
_____ BOD
_____ DO
_____ pH

Carb BOD
Fecal
Ammonia-N
Oil & Grease
Alkalinity

TKN
TOP
Nitrate
Phenols
Res Cl

Metals

Relinquished by:

Date/Time

Received by:

Date/Time

Relinquished by:

Date/Time

Received by:

Date/Time

(For Lab use only)

Client:

Sample Container:

Quantity

Type

Size

Preserve

G P

1 L	Ice & <u>H2SO4</u>	NaOH, HNO3
500 ml	Ice & H2SO4	NaOH, HNO3
250 ml	Ice & H2SO4	NaOH, HNO3
125 ml	Ice & H2SO4	NaOH, HNO3

Thiosulfate Present Y N

Sample Condition Upon Receipt:

Temp Deg. C. ~~4~~ 4

**Preserved
Proper Container**

N
N

Archiv

Disposal by Lab

Return to

Sample Disposal:

2008 Metals & Organics Yearly Report

Permit Requirements	Unit of Measurement	Arsenic						Copper		Chromium		Pentachlorophenol	
		Date	Flow	mg/l	lbs	mg/l	lbs	mg/l	lbs	mg/l	lbs	mg/l	lbs
2/28/2008	43,800	NODI-B	NODI-B	0.0026	0.0009	NODI-B	NODI-B	0.028	0.01				
5/8/2008	46,500							NODI-B	NODI-B				
7/23/2008	42,500	0.0127	0.005	NODI-B	NODI-B	0.012	0.004						
11/10/2008	37,400												
Avg.	0.0064	0.0025	0.0013	0.00045	NODI-B	NODI-B	0.01375	0.00475					
Max.	0.0127	0.005	0.0026	0.0009	NODI-B	NODI-B	0.028	0.01					
Min.					NODI-B	NODI-B							



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

405-775-5429

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1079546. Samples arrived at the laboratory on Friday, February 29, 2008. The PO# for this group is ZSAL4CEOK0A50205.

Client Description

Effluent Weir Composite Water Sample
Effluent Weir Grab Water Sample

Lancaster Labs Number

5291840
5291841

ELECTRONIC COPY TO Tronox LLC
1 COPY TO Tronox LLC

Attn: Sherron Hendricks

Attn: Robert Pounds



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Gwen A Birchall at (717) 656-2300

Respectfully Submitted,

Rachel R. Cochis

Rachel R. Cochis
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW5291840

Group No. 1079546

Effluent Weir Composite Water Sample
Columbus, MS

Collected: 02/27/2008 07:45 by DA
through 02/28/2008 07:45
Submitted: 02/29/2008 09:15
Reported: 03/13/2008 at 08:39
Discard: 05/13/2008

Account Number: 11947

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

EFWCM SDG#: KMM94-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
07035	Arsenic	7440-38-2	N.D.	0.0200	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0150	mg/l	1
07053	Copper	7440-50-8	0.0026 J	0.0100	mg/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	EPA 200.7	1	03/11/2008 22:16	Thomas F McLamb Sr	1
07051	Chromium	EPA 200.7	1	03/11/2008 22:16	Thomas F McLamb Sr	1
07053	Copper	EPA 200.7	1	03/11/2008 22:16	Thomas F McLamb Sr	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7	1	03/07/2008 16:30	Mirit S Shenouda	1





Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW5291841

Group No. 1079546

Effluent Weir Grab Water Sample
Columbus, MS

Collected: 02/28/2008 07:04 by DA

Account Number: 11947

Submitted: 02/29/2008 09:15

Tronox LLC

Reported: 03/13/2008 at 08:39

P.O. Box 268859

Discard: 05/13/2008

Oklahoma City OK 73126-8859

EFWGR SDG#: KMM94-02*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
04678	TCL SW846 Semivolatiles/Waters					
03934	Pentachlorophenol	87-86-5	28.	16.	ug/l	1
	Due to insufficient sample, the reporting limits for the GC/MS semivolatile compounds were raised.					

The surrogate recoveries did not meet client-specific requirements, but were within statistically generated windows.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	03/04/2008 04:17	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	03/02/2008 11:00	Mariam G Attalla	1

Quality Control Summary

Client Name: Tronox LLC
Reported: 03/13/08 at 08:39 AM

Group Number: 1079546

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 08061WAC026 Pentachlorophenol	N.D.	15.	Sample number(s): 5291841 ug/l	86	84	53-110	2	30
Batch number: 080675716004 Arsenic	N.D.	0.0200	Sample number(s): 5291840 mg/l	102		85-115		
Chromium	N.D.	0.0150	mg/l	100		85-115		
Copper	N.D.	0.0100	mg/l	101		85-115		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 080675716004 Arsenic	92		Sample number(s): 5291840 UNSPK: P293310 BKG: P293310 80-128			0.0130 J	N.D.	200* (1)	20
Chromium	98		81-120			N.D.	N.D.	0 (1)	20
Copper	101		86-122			N.D.	N.D.	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SW846 Semivolatiles/Waters

Batch number: 08061WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol
5291841	36		73
Blank	53	35	86
LCS	54	36	83
LCSD	54	37	86
Limits:	10-70	10-97	26-153

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Analysis Request / Environmental Services Chain of Custody



Lancaster Laboratories
Where quality is a science

For Lancaster Laboratories use only

Acct. # 11941 Group # 1079546 Sample # 3291840-41

COC # 0058152

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: <u>TRONOX LLC</u> Acct. #: _____ Project Name: <u>Quarterly Reg Annual</u> PWSID #: _____ Project Manager: <u>Robert Pardo</u> P.O.#: _____ Sampler: <u>Wicky Allison</u> Quote #: _____ Name of state where samples were collected: _____		4 Matrix: ☒ Soil ☒ Water ☐ Other _____ NPDES Applicable: ☐ Potable Check: ☐		5 Analyses Requested: <u>As-Is-TL</u> <u>Pendleborough 1/24</u>		For Lab Use Only FSC: _____ SCR #: _____	
2 Sample Identification: <u>Effluent Well</u> <u>Effluent Well</u>		3 Date Collected: <u>3-27-08</u> <u>3-28-08</u> <u>3-28-08</u>		Time Collected: <u>0745</u> <u>0745</u> <u>0704</u>		Remarks: <u>< 2, Cool to 40°C - MMB</u> <u>Sampled every 1/2 hr</u> <u>for 24 hrs. 100 ml</u> <u>Algeat, Cool to 4°C,</u> <u>18 Preservatives</u>	
7 Turnaround Time Requested (TAT) (please circle): <u>Normal</u> (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: _____ Rush results requested by (please circle): _____ Phone _____ Fax _____ E-mail _____ Phone #: _____ Fax #: _____ E-mail address: _____		Relinquished by: <u>Wicky Allison</u> Relinquished by: _____ Relinquished by: _____ Relinquished by: _____ Relinquished by: _____		Date: <u>3/28/08</u> Date: _____ Date: _____ Date: _____ Date: _____		Time: _____ Time: _____ Time: _____ Time: _____ Time: _____	
8 Data Package Options (please circle if required) QC Summary Type VI (Raw Data) Yes No Type I (Tier I) GLP Site-specific QC required? Yes No Type II (Tier II) Other (If yes, indicate QC sample and submit triplicate volume.) Type III (NJ Red. Del.) Internal Chain of Custody required? Yes No Type IV (CLP)		Date: <u>3-29-08</u> Time: _____ Signature: <u>Wicky Allison</u>					

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
✓	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



Analysis Report

2425 New Holland Pike PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

405-775-5429

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1090468. Samples arrived at the laboratory on Friday, May 09, 2008.
The PO# for this group is ZSAL4CEOK0A50205.

Client Description

Effluent Weir Grab Water Sample

Lancaster Labs Number

5355947

ELECTRONIC Tronox LLC
COPY TO
1 COPY TO Tronox LLC

Attn: Sherron Hendricks

Attn: Robert Pounds

Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300

Respectfully Submitted,

Chad A. Moline
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW5355947

Group No. 1090468

Effluent Weir Grab Water Sample
Columbus, MS

Collected: 05/08/2008 08:46 by DA

Account Number: 11947

Submitted: 05/09/2008 10:00

Tronox LLC

Reported: 05/29/2008 at 23:30

P.O. Box 268859

Discard: 07/29/2008

Oklahoma City OK 73126-8859

EFFWE SDG#: KMN02-01*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
04678	TCL SW846 Semivolatiles/Waters					
03934	Pentachlorophenol	87-86-5	N.D.	16.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	05/26/2008 00:23	William T Parker	1
00813	BNA Water Extraction	SW-846 3510C	1	05/14/2008 15:00	Eric M Walker	1

Quality Control Summary

Client Name: Tronox LLC
Reported: 05/29/08 at 11:30 PM

Group Number: 1090468

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 08135WAB026 Pentachlorophenol	N.D.	15.	Sample number(s): 5355947 ug/l	82	82	53-110	1	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SW846 Semivolatiles/Waters
Batch number: 08135WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol
5355947	38	30	59
Blank	60	39	88
LCS	59	40	82
LCSD	60	39	84
Limits:	10-97	10-70	26-153

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Lancaster Laboratories Explanation of Symbols and Abbreviations

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IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA <0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

405-775-5429

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1102185. Samples arrived at the laboratory on Thursday, July 24, 2008. The PO# for this group is ZSAL4CEOK0A50205.

Client Description

Effluent Weir Composite Water Sample
Effluent Weir Grab Water Sample

Lancaster Labs Number

5423502
5423503

ELECTRONIC Tronox LLC
COPY TO
1 COPY TO Tronox LLC

Attn: Sherron Hendricks

Attn: Robert Pounds

Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300

Respectfully Submitted,

Chad A. Moline
Group Leader



Lancaster
Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW5423502

Group No. 1102185

Effluent Weir Composite Water Sample
Columbus, MS

Collected: 07/22/2008 08:10 by DA
through 07/23/2008 08:10
Submitted: 07/24/2008 09:50
Reported: 08/01/2008 at 14:16
Discard: 10/01/2008

Account Number: 11947

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

COLCM SDG#: KMN04-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
07035	Arsenic	7440-38-2	0.0127 J	0.0200	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0150	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0100	mg/l	1

The temperature of the sample(s) upon receipt at the lab was 6.1C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	EPA 200.7 rev 4.4	1	07/30/2008 20:55	Thomas F McLamb Sr	1
07051	Chromium	EPA 200.7 rev 4.4	1	07/30/2008 20:55	Thomas F McLamb Sr	1
07053	Copper	EPA 200.7 rev 4.4	1	07/30/2008 20:55	Thomas F McLamb Sr	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	07/30/2008 08:30	Suzette L Lehman	1



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW5423503

Group No. 1102185

Effluent Weir Grab Water Sample
Columbus, MS

Collected: 07/23/2008 08:01 by DA

Account Number: 11947

Submitted: 07/24/2008 09:50
Reported: 08/01/2008 at 14:16
Discard: 10/01/2008

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

COLEF SDG#: KMN04-02*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
04678	TCL SW846 Semivolatiles/Waters					
03934	Pentachlorophenol	87-86-5	12. J	16.	ug/l	1

The temperature of the sample(s) upon receipt at the lab was 6.1C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	07/29/2008 06:46	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	07/27/2008 13:30	Elaine F Stoltzfus	1

Quality Control Summary

Client Name: Tronox LLC
Reported: 08/01/08 at 02:16 PM

Group Number: 1102185

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 08208WAB026 Pentachlorophenol	N.D.	15.	ug/l	88	83	53-110	6	30
Batch number: 082115716001	Sample number(s): 5423502							
Arsenic	N.D.	0.0200	mg/l	101		85-115		
Chromium	N.D.	0.0150	mg/l	104		85-115		
Copper	N.D.	0.0100	mg/l	101		85-115		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 082115716001	Sample number(s): 5423502 UNSPK: P426332 BKG: P426332								
Arsenic	103		80-128			N.D.	N.D.	0 (1)	20
Chromium	100		81-120			N.D.	N.D.	0 (1)	20
Copper	108		86-122			0.0029 J	N.D.	200* (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SW846 Semivolatiles/Waters

Batch number: 08208WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol
5423503	49	35	106
Blank	49	31	106
LCS	60	37	105
LCSD	63	39	106
Limits:	10-98	10-74	26-153

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Lancaster
Laboratories

Acct. # 11947

Group# 1102185 Sample# 5423502-03

COC # 178562

Please print. Instructions on reverse side correspond with circled numbers.

Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6766
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Lancaster Laboratories Explanation of Symbols and Abbreviations

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TNTC	Too Numerous To Count	MPN	Most Probable Number
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umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA <0.995
X,Y,Z	Defined in case narrative		

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WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



Analysis Report

2425 New Holland Pike PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

405-775-5429

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1119669. Samples arrived at the laboratory on Wednesday, November 12, 2008. The PO# for this group is ZSAL4CEOK0A50205.

Client Description

WEIR BOX OF001 Grab Water

Lancaster Labs Number

5526083

ELECTRONIC COPY TO Tronox LLC
ELECTRONIC COPY TO Tronox LLC

Attn: Sherron Hendricks

Attn: Robert Pounds

Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300

Respectfully Submitted,

Chad A. Moine
Group Leader



Lancaster
Laboratories

Analysis Report

2425 New Holland Pike PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW5526083

Group No. 1119669

WEIR BOX OF001 Grab Water

0058153

Columbus, MS

Collected: 11/10/2008 16:48 by DA

Account Number: 11947

Submitted: 11/12/2008 09:00

Reported: 12/03/2008 at 14:04

Discard: 02/02/2009

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

WEIRB SDG#: KMN07-01*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
04678	TCL SW846 Semivolatiles/Waters					
03934	Pentachlorophenol	87-86-5	15 J	16	ug/l	1
Surrogate recoveries are outside of client-specified QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and surrogate recoveries were within QC limits. The data reported is from the initial extraction of the sample.						

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	11/23/2008 03:13	Chad A Moline	1
00813	BNA Water Extraction	SW-846 3510C	1	11/14/2008 09:15	Kevin P Love	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Quality Control Summary

Client Name: Tronox LLC
Reported: 12/03/08 at 02:05 PM

Group Number: 1119669

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 08318WAI026 Pentachlorophenol	N.D.	15.	Sample number(s): 5526083 ug/l	82		53-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 08318WAI026 Pentachlorophenol	89	89	22-129	0	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SW846 Semivolatiles/Waters

Batch number: 08318WAI026

2-Fluorophenol Phenol-d6 2,4,6-Tribromophenol

5526083	32	26	99
Blank	56	33	111
LCS	62	41	113
MS	12	7*	82
MSD	14	8*	90

Limits:	10-98	10-74	26-153
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*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only

Acct # 11947 Group# 119669 Sample # 5526083
For Lancaster Laboratories use only

COC # 0058153

Please print. Instructions on reverse side correspond with circled numbers.

[illegible]

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA <0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

KMCC - FPD Facility - Columbus, MS

Month: November. 2008

Permit Requirement
Unit of Measurement

O&G	PHENOLS	pH
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XX

DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	36,867					
2	36,867					
3	37,700					6.7
4	38,000					
5	37,300					
6	36,000					
7	37,966	6	1.9	<0.01	0.003	
8	37,967					
9	37,967					
10	36,600					6.5
11	37,400					
12	37,000					
13	37,100					
14	36,333					
15	36,333					
16	36,334					
17	36,300					6.7
18	36,700					
19	36,400					
20	37,400					
21	35,400	5	1.48	<0.01	0.003	
22	35,400					
23	35,400					
24	37,000					6.8
25	36,000					
26	36,500					
27	36,500					
28	36,666					
29	36,667					
30	36,667					
31						
Avg.	36,758	5.5	1.69	<0.01	0.003	6.68
Max.	38,000	6	1.9	<0.01	0.003	6.8
Min.	35,400	5	1.48	<0.01	0.003	6.5

Nov. 18, 2008

ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
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3656

Effluent

11/7/2008

TOTAL PHENOLS

<0.01 mg/l

625

OIL & GREASE

6 mg/l

1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved:

Robert A. Schubert

Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 3656

Client: Radio X L.L.C.

Sample Description: Effluent water Comp. _____ Hr. Grab

Residual Cl _____ pH _____ DO _____ Temp _____ Flow _____

Collected by: [Signature] Date: 11/7/08 Time: 7:00 am pm

Turn around Time: Normal _____ Rush _____ Specify Date _____

Hazard Identification: Non Hazard Flammable Skin Irritant Unknown

Matrix: Water/Wastewater Other Radio X (Description)

Calibrations: pH Meter _____ Buffers _____ Date: _____ Time: _____ DO Meter: Date _____ Time: _____

Requested Lab Analyses:

			Metals	Other
pH _____	Carb BOD _____	TKN _____	_____	_____
DO _____	Fecal _____	TOP _____	_____	_____
BOD _____	Ammonia-N _____	Nitrate _____	_____	_____
TSS _____	<u>Oil & Grease</u> _____	<u>Phenols</u> _____	_____	_____
COD _____	Alkalinity _____	Res Cl _____	_____	_____

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/7/08 7:00 AM</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/7/08 7:30</u>
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Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/7/08 11:30</u>	Received by: <u>CAS</u>	Date/Time: <u>11/7/08 11:30</u>
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(For Lab use only)

Client: _____

Received by: _____ Date _____ Time _____ am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G</u> P	1 L	Ice; Ice & H2SO4, NaOH, HNO3		
	_____	G P	500 ml	Ice; Ice & H2SO4, NaOH, HNO3		
	_____	G P	250 ml	Ice; Ice & H2SO4, NaOH, HNO3		
Thiosulfate Present Y N	_____	G P	125 ml	Ice; Ice & H2SO4, NaOH, HNO3		
	_____	G A	40 ml vial	Ice		

Sample Condition Upon Receipt: Temp Deg. C. 4

Preserved X N
Proper Container X N

Sample Disposal: Return to Client _____ Disposal by Lab X Archive _____

Dec. 15, 2008

ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS00023

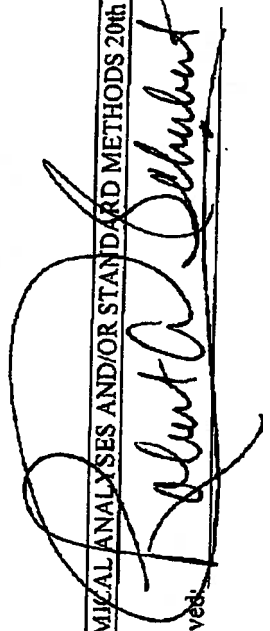
TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
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3801	Effluent	11/21/2008	TOTAL PHENOLS	<0.01 mg/l			625
			OIL & GREASE	5 mg/l			1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved:



Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 3801

Client: Thonox LLC

Sample Description: EFFLUENT Wt. Comp. Hr. Grab

Residual Cl _____ pH _____ DO _____ Temp _____ Flow _____

Collected by: L.P. Liu Date: 11/21/08 Time: 7:00 am pm

Turn around Time: Normal Rush _____ Specify Date _____

Hazard Identification: Non-Hazard Flammable Skin Irritant Unknown

Matrix: Water/Wastewater Other: Fluoridated WATER
(Description)

Calibrations: pH Meter Buffers _____ Date: _____ Time: _____ DO Meter: Date _____ Time: _____

Requested Lab Analyses:

			Metals	Other
pH _____	Carb BOD _____	TKN _____	_____	_____
DO _____	Fecal _____	TOP _____	_____	_____
BOD _____	Ammonia-N _____	Nitrate _____	_____	_____
TSS _____	<u>Oil & Grease</u> _____	<u>Phenols</u> _____	_____	_____
COD _____	Alkalinity _____	Res Cl _____	_____	_____

Relinquished by:	Date/Time	Received by:	Date/Time
<u>L.P. Liu</u>	<u>11/21/08 7:00 AM</u>	<u>N. J. [Signature]</u>	<u>11/21/08 7:30</u>

Relinquished by:	Date/Time	Received by:	Date/Time
<u>[Signature]</u>	<u>11/21/08 11:30</u>	<u>CAB</u>	<u>11/21/08 11:30</u>

(For Lab use only)

Client: _____

Received by: _____ Date _____ Time _____ am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G</u> P	1 L	Ice; Ice & H2SO4, NaOH, HNO3		
	_____	G P	500 ml	Ice; Ice & H2SO4, NaOH, HNO3		
	_____	G P	250 ml	Ice; Ice & H2SO4, NaOH, HNO3		
Thiosulfate Present Y N	_____	G P	125 ml	Ice; Ice & H2SO4, NaOH, HNO3		
	_____	G A	40 ml vial	Ice		

Sample Condition Upon Receipt: Temp Deg. C. 4 Preserved Y N
Proper Container Y N

Sample Disposal: Return to Client Disposal by Lab X Archive _____

KMCC - FPD Facility - Columbus, MS

Month: October. 2008

Permit Requirement
Unit of Measurement

O&G	PHENOLS	pH
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XX

DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	38,800					
2	38,600					
3	37,700	7	2.2	<0.01	0.003	
4	37,700					
5	37,700					
6	38,900					6.6
7	38,200					
8	40,600					
9	40,200					
10	40,000					
11	40,000					
12	40,000					
13	41,000					6.5
14	39,300					
15	40,700					
16	42,100					
17	40,766	7	2.38	<0.01	0.003	
18	40,767					
19	40,767					
20	39,100					6.5
21	38,500					
22	38,400					
23	41,400					
24	39,400					
25	39,400					
26	39,400					
27	37,100					6.6
28	30,900					
29	39,200					
30	37,200					
31	36,866					
Avg.	39,054	7	2.29	<0.01	0.003	6.55
Max.	42,100	7	2.38	<0.01	0.003	6.6
Min.	30,900	7	2.2	<0.01	0.003	6.5

Oct. 28, 2008

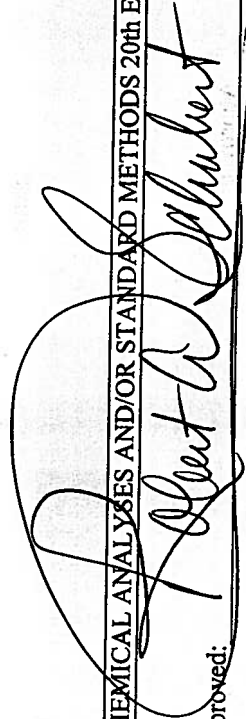
ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS000023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
3382	Effluent	10/3/2008	TOTAL PHENOLS	<0.01 mg/l			625
			OIL & GREASE	7 mg/l			1664 A
3507	Effluent	10/17/2008	TOTAL PHENOLS	<0.01 mg/l			625
			OIL & GREASE	7 mg/l			1664 A

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved:



Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 3382Client: Thonox H.L.E.Sample Description: Effluent well Comp. Hr. Grab

Residual Cl _____ pH _____ DO _____ Temp _____ Flow _____

Collected by: L.L. / Lul Date: 10/3/08 Time: 7:00 am pm

Turn around Time: Normal _____ Rush _____ Specify Date _____

Hazard Identification: Non Hazard Skin Irritant
Flammable UnknownMatrix: Water/Wastewater Other GROUND WATER
(Description)

Calibrations: pH Meter Buffers _____ Date: _____ Time: _____ DO Meter: Date _____ Time: _____

Requested Lab Analyses:

			Metals	Other
pH _____	Carb BOD _____	TKN _____	_____	_____
DO _____	Fecal _____	TOP _____	_____	_____
BOD _____	Ammonia-N _____	Nitrate _____	_____	_____
TSS _____	<u>Oil & Grease</u> _____	<u>Phenols</u> _____	_____	_____
COD _____	Alkalinity _____	Res Cl _____	_____	_____

Relinquished by:	Date/Time	Received by:	Date/Time
<u>L.L. / Lul</u>	<u>10/3/08 7:00 AM</u>	<u>Nellie</u>	<u>10/3/08 9:15</u>

Relinquished by:	Date/Time	Received by:	Date/Time
<u>L.L. / Lul</u>	<u>10/3/08 10:30</u>	<u>Lul</u>	<u>10/3/08 10:30</u>

(For Lab use only)

Client: _____

Received by: _____ Date _____ Time _____ am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G</u> P	1 L	Ice; Ice & H2SO4		NaOH, HNO3
	_____	G P	500 ml	Ice; Ice & H2SO4		NaOH, HNO3
	_____	G P	250 ml	Ice; Ice & H2SO4		NaOH, HNO3
Thiosulfate Present	Y N	G P	125 ml	Ice; Ice & H2SO4		NaOH, HNO3
	_____	G A	40 ml vial	Ice		

Sample Condition Upon Receipt: Temp Deg. C. 4Preserved Y N
Proper Container Y NSample Disposal: Return to Client Disposal by Lab _____ Archive _____

Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 3507

Client: THEVOX LLC.

Sample Description: EFFluent water Comp. _____ Hr. Grab

Residual Cl _____ pH _____ DO _____ Temp _____ Flow _____

Collected by: LS / LUI Date: 10/17/08 Time: 7:00 am pm

Turn around Time: Normal _____ Rush _____ Specify Date _____

Hazard Identification: Non Hazard Skin Irritant
Flammable Unknown

Matrix: Water/Wastewater Other Ground Water
(Description)

Calibrations: pH Meter Buffers _____ Date: _____ Time: _____ DO Meter: Date _____ Time: _____

Requested Lab Analyses:

			Metals	Other
pH _____	Carb BOD _____	TKN _____	_____	_____
DO _____	Fecal _____	TOP _____	_____	_____
BOD _____	Ammonia-N _____	Nitrate _____	_____	_____
TSS _____	<u>Oil & Grease</u> _____	<u>Phenols</u> _____	_____	_____
COD _____	Alkalinity _____	Res Cl _____	_____	_____

Relinquished by: LS / LUI Date/Time: 10/17/08 7:00 AM Received by: William Miller Date/Time: 10/17/08 7:15

Relinquished by: [Signature] Date/Time: 10/17/08 8:25 Received by: LAB Date/Time: 10/17/08 8:25

(For Lab use only)

Client: _____

Received by: _____ Date _____ Time _____ am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G</u> P	1 L	Ice; <u>Ice & H2SO4</u> , NaOH, HNO3		
	_____	G P	500 ml	Ice; Ice & H2SO4, NaOH, HNO3		
	_____	G P	250 ml	Ice; Ice & H2SO4, NaOH, HNO3		
Thiosulfate Present Y N	_____	G P	125 ml	Ice; Ice & H2SO4, NaOH, HNO3		
	_____	G A	40 ml vial	Ice		

Sample Condition Upon Receipt: Temp Deg. C. 4

Preserved Y N
Proper Container Y N

Sample Disposal: Return to Client _____ Disposal by Lab _____ Archive _____

Sept. 19, 2008

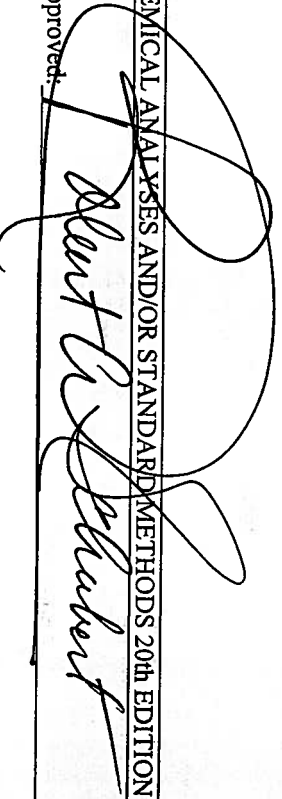
ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
3048	Effluent	9/5/2008	TOTAL PHENOLS	13.30 mg/l			420.1
			OIL & GREASE	6 mg/l			1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved:



Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 3048

Client: THORX LLC.

Sample Description: EFFLUENT WTR Comp. _____ Hr. Grab

Residual Cl _____ pH _____ DO _____ Temp _____ Flow _____

Collected by: L.P. / LUL Date: 9/5/08 Time: 7:00 am pm

Turn around Time: Normal _____ Rush _____ Specify Date _____

Hazard Identification: Non Hazard Flammable Skin Irritant Unknown

Matrix: Water/Wastewater Other GROUND WATER
(Description)

Calibrations: pH Meter Buffers _____ Date: _____ Time: _____ DO Meter: Date _____ Time: _____

Requested Lab Analyses:

			Metals	Other
pH _____	Carb BOD _____	TKN _____	_____	_____
DO _____	Fecal _____	TOP _____	_____	_____
BOD _____	Ammonia-N _____	Nitrate _____	_____	_____
TSS _____	<u>Oil & Grease</u>	<u>Phenols</u>	_____	_____
COD _____	Alkalinity _____	Res Cl _____	_____	_____

Relinquished by: <u>L.P. / LUL</u>	Date/Time: <u>9/5/08 7:00 AM</u>	Received by: <u>William Wilson</u>	Date/Time: <u>9/5/08 9:00</u>
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Relinquished by: <u>[Signature]</u>	Date/Time: <u>9/5/08 9:55</u>	Received by: <u>LAB</u>	Date/Time: <u>9/5/08 9:55</u>
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(For Lab use only)

Client: _____

Received by: _____ Date _____ Time _____ am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G</u> P	1 L	Ice; Ice & <u>H2SO4</u>		NaOH, HNO3
	_____	G P	500 ml	Ice; Ice & H2SO4		NaOH, HNO3
	_____	G P	250 ml	Ice; Ice & H2SO4		NaOH, HNO3
Thiosulfate Present Y N	_____	G P	125 ml	Ice; Ice & H2SO4		NaOH, HNO3
	_____	G A	40 ml vial	Ice		

Sample Condition Upon Receipt: Temp Deg. C. 4

Preserved Y N
Proper Container Y N

Sample Disposal: Return to Client Disposal by Lab Archiv

Oct. 17, 2008

ENVIRO-LABS, INC.
608 CHILDSPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39700-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA TARB CODE: MS00023

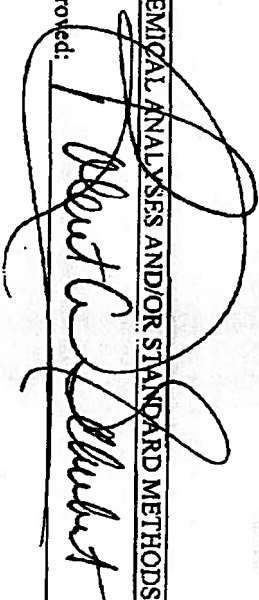
TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
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3223	Effluent	9/19/2008	TOTAL PHENOLS	11.30 mg/l			420.1
			OIL & GREASE	7 mg/l			1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved:



Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 7223

Client: 777-X-177

Sample Description: _____
Comp. _____ Hr. _____ Grab _____

Residual Cl _____ pH _____ DO _____ Temp _____ Flow _____
Collected by: K.C. Miller
Date: 9/26/08 Time: 7:41 am pm

Turn around Time: Normal Rush Specify Date

Hazard Identification: ~~Non Hazard~~ ~~Flammable~~ ~~Unknown~~ ~~Skin Irritant~~

Matrix:	Water/Wastewater	Other <i>Other</i>	(Description)	Date:	Time:	DO Meter:	Date:	Time:
Calibrations:	pH Meter	Buffers						

Requested Lab Analyses:

pH	_____	Carb BOD	_____	TKN	_____
DO	_____	Fecal	_____	TOP	_____
BOD	_____	Ammonia-N	_____	Nitrate	_____
TSS	_____	Oil & Grease	_____	Phenols	_____
COD	_____	Alkalinity	_____	Res Cl	_____

Relinquished by:

Date/Time

Received by:

Date/Time

Relinquished by:

Date/Time

Received by:

Date/Time

(For Lab use only)

Client:

Received by: _____ Date _____ Time _____ am pm

Sample Containers:

Quantity

Type

Size

Preserve

4 2

Thiosulfate Present	Y	N
2	G	P
	G	P
	G	P
	G	P
	G	P
	G	A

40 ml vial	125 ml	250 ml	500 ml	1 L
Ice	Ice & H ₂ SO ₄ , NaOH, HNO ₃	Ice & H ₂ SO ₄ , NaOH, HNO ₃	Ice & H ₂ SO ₄ , NaOH, HNO ₃	Ice & <u>H₂SO₄</u> , NaOH, HNO ₃

Sample Condition Upon Receipt:

Temp Deg. C. 25

Preserved
Proper Container

~~Sample Disposal: Return to Client Disposed by Lab Archive~~

KMCC - FPD Facility - Columbus, MS

Month: September. 2008

Permit Requirement
Unit of Measurement

O&G	PHENOLS	pH
-----	---------	----

XX

DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	40,200					6.5
2	40,000					
3	39,000					
4	39,100					
5	37,566	6	1.88	13.3	4.16	
6	37,567					
7	37,567					
8	34,900					6.5
9	33,000					
10	34,500					
11	40,800					
12	39,666					
13	39,667					
14	39,667					
15	38,300					6.5
16	38,300					
17	38,600					
18	38,500					
19	40,233	7	2.35	11.3	3.79	
20	40,233					
21	40,234					
22	39,900					6.5
23	40,800					
24	40,800					
25	40,500					
26	38,600					
27	38,600					
28	38,600					
29	41,600					6.6
30	38,800					
31						
Avg.	38,860	6.5	2.12	12.3	3.98	6.52
Max.	41,600	7	2.35	13.3	4.16	6.6
Min.	33,000	6	1.88	11.3	3.79	6.5

KMCC - FPD Facility - Columbus, MS

Month: August. 2008

Permit Requirement
Unit of Measurement

O&G	PHENOLS	pH
-----	---------	----

XX

DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	31,733	6	1.59	9.05	2.39	
2	31,733					
3	31,734					
4	39,900					6.6
5	34,600					
6	45,300					
7	41,000					
8	40,266					
9	40,267					
10	40,267					
11	41,300					6.6
12	42,000					
13	41,900					
14	42,100					
15	39,666	6	1.98	10.35	3.42	
16	39,667					
17	39,667					
18	40,400					6.4
19	41,000					
20	41,000					
21	37,800					
22	39,700					
23	39,700					
24	39,700					
25	43,200					6.5
26	41,800					
27	41,400					
28	36,600					
29	41,266					
30	41,267					
31	41,267					
Avg.	39,652	6	1.79	9.7	2.91	6.53
Max.	45,300	6	1.98	10.35	3.42	6.6
Min.	31,733	6	1.59	9.05	2.39	6.4

Sept. 16, 2008

ENVIRONMENTAL LABS, INC.
600 CHILBERT STREET
P. O. BOX 1000
SEVEN HILLS, MS 38670-1000
1-800-823-2744
1-662-324-4735 (& FAX)
HSEPA LABORATORY: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
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2723	Effluent	8/1/2008	TOTAL PHENOLS	9.05 mg/l			420.1
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			OIL & GREASE	6 mg/l			1664
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2830	Effluent	8/15/2008	TOTAL PHENOLS	10.35 mg/l			420.1
------	----------	-----------	---------------	------------	--	--	-------

			OIL & GREASE	6 mg/l			1664
--	--	--	--------------	--------	--	--	------

THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 2011 EDITION

Approved:



Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 2763

Client: Thorlox LLC.

Sample Description: Effluent Weld Comp. Hr. Grab

Residual Cl pH DO Temp Flow

Collected by: L.L. Felt Date: 8/1/08 Time: 6:30 am pm

Turn around Time: Normal Rush Specify Date

Hazard Identification: Non Hazard Flammable Skin Irritant Unknown

Matrix: Water/Wastewater Other Flashed effluent
(Description)

Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:

Requested Lab Analyses:

			Metals	Other
pH <u> </u>	Carb BOD <u> </u>	TKN <u> </u>	<u> </u>	<u> </u>
DO <u> </u>	Fecal <u> </u>	TOP <u> </u>	<u> </u>	<u> </u>
BOD <u> </u>	Ammonia-N <u> </u>	Nitrate <u> </u>	<u> </u>	<u> </u>
TSS <u> </u>	<u>Oil & Grease</u>	<u>Phenols</u>	<u> </u>	<u> </u>
COD <u> </u>	Alkalinity <u> </u>	Res Cl <u> </u>	<u> </u>	<u> </u>

Relinquished by: L.L. Felt Date/Time: 8/1/08 6:30 AM Received by: Nalley Niles Date/Time: 8/1/08 8:10

Relinquished by: [Signature] Date/Time: 8/1/08 8:50 Received by: [Signature] Date/Time: 8/1/08 8:50

(For Lab use only)

Client:

Received by: Date Time am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G P</u>	<u>1 L</u>	Ice; <u>Ice & H2SO4</u>		NaOH, HNO3
	<u> </u>	<u>G P</u>	<u>500 ml</u>	Ice; Ice & H2SO4		NaOH, HNO3
	<u> </u>	<u>G P</u>	<u>250 ml</u>	Ice; Ice & H2SO4		NaOH, HNO3
Thiosulfate Present Y N	<u> </u>	<u>G P</u>	<u>125 ml</u>	Ice; Ice & H2SO4		NaOH, HNO3
	<u> </u>	<u>G A</u>	<u>40 ml vial</u>	Ice		

Sample Condition Upon Receipt: Temp Deg. C. 4

Preserved Y N
Proper Container Y N

Sample Disposal: Return to Client Disposal by Lab Archive

Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 2830

Client: THORAX LLC.

Sample Description: EFFluent Comp. Grab Hr.

Residual Cl pH DO Temp Flow

Collected by: L.P. / LUL Date: 8/15/08 Time: 1:45 am pm

Turn around Time: Normal Rush Specify Date

Hazard Identification: Non Hazard Flammable Skin Irritant Unknown

Matrix: Water/Wastewater Other Effluent Water
(Description)

Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:

Requested Lab Analyses:

pH <u> </u>	Carb BOD <u> </u>	TKN <u> </u>	Metals <u> </u>	Other <u> </u>
DO <u> </u>	Fecal <u> </u>	TOP <u> </u>	<u> </u>	<u> </u>
BOD <u> </u>	Ammonia-N <u> </u>	Nitrate <u> </u>	<u> </u>	<u> </u>
TSS <u> </u>	Oil & Grease <u> </u>	Phenols <u> </u>	<u> </u>	<u> </u>
COD <u> </u>	Alkalinity <u> </u>	Res Cl <u> </u>	<u> </u>	<u> </u>

Relinquished by: L.P. / LUL Date/Time: 8/15/08 8:15
Received by: [Signature] Date/Time: 8/15/08 8:15

Relinquished by: [Signature] Date/Time: 8/15/08 8:45
Received by: [Signature] Date/Time: 8/15/08 8:45

(For Lab use only)

Client:

Received by: Date Time am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
<u>2</u>	<u> </u>	<u>C</u> P	<u>1 L</u>	Ice; <u>Acid</u> H2SO4	<u> </u>	NaOH, HNO3
<u> </u>	<u> </u>	G P	<u>500 ml</u>	Ice; Ice & H2SO4	<u> </u>	NaOH, HNO3
<u> </u>	<u> </u>	G P	<u>250 ml</u>	Ice; Ice & H2SO4	<u> </u>	NaOH, HNO3
Thiosulfate Present Y N <u> </u>	<u> </u>	G P	<u>125 ml</u>	Ice; Ice & H2SO4	<u> </u>	NaOH, HNO3
<u> </u>	<u> </u>	G A	<u>40 ml vial</u>	Ice	<u> </u>	<u> </u>

Sample Condition Upon Receipt: Temp Deg. C. 4

Preserved Y N
Proper Container Y N

Sample Disposal: Return to Client Disposal by Lab Archive

KMCC - FPD Facility - Columbus, MS

Month: July. 2008

Permit Requirement
Unit of Measurement

O&G	PHENOLS	pH
-----	---------	----

XX

DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	42,400					
2	41,600	7	2.43	7.29	2.53	
3	41,000					
4	41,933					
5	41,933					
6	41,934					
7	42,200					6.5
8	40,000					
9	43,000					
10	39,000					
11	42,000					
12	42,000					
13	42,000					
14	42,000					6.6
15	41,200					
16	40,500					
17	42,400					
18	41,466	6	2.07	12.75	4.4	
19	41,467					
20	41,467					
21	40,900					6.4
22	41,900					
23	42,500					
24	42,600					
25	41,366					
26	42,367					
27	41,367					
28	39,200					6.5
29	43,400					
30	43,900					
31	41,600					
Avg.	41,697	6.5	2.25	10.02	3.47	6.5
Max.	43,900	7	2.43	12.75	4.4	6.6
Min.	39,000	6	2.07	7.29	2.53	6.4

July 16, 2008

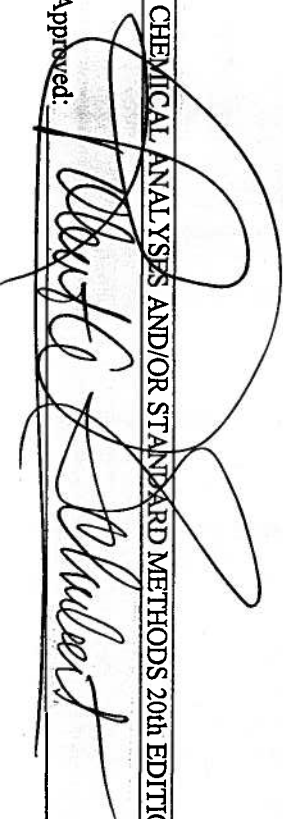
ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
2281	Effluent	6/6/2008	TOTAL PHENOLS	14.10 mg/l			420.1
			OIL & GREASE	6 mg/l			1664A
2424	Effluent	6/20/2008	TOTAL PHENOLS	16.15 mg/l			420.1
			OIL & GREASE	6 mg/l			1664A
2510	Effluent	7/2/2008	TOTAL PHENOLS	7.29 mg/l			420.1
			OIL & GREASE	7 mg/l			1664A

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved:



Aug. 19, 2008

ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
2660	Effluent	7/18/2008	TOTAL PHENOLS	12.75 mg/l			420.1
			OIL & GREASE	6 mg/l			1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved: _____



Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 2510

Client: THORX LLC

Sample Description: Effluent Water Comp. Hr. Grab

Residual Cl pH DO Temp Flow

Collected by: L.H. / L.H. Date: 7/2/08 Time: 7:00 (am) pm

Turn around Time: Normal Rush Specify Date

Hazard Identification: Non Hazard Flammable Skin Irritant Unknown

Matrix: Water/Wastewater Other THORX WATER
(Description)

Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:

Requested Lab Analyses:

			Metals	Other
pH <u> </u>	Carb BOD <u> </u>	TKN <u> </u>	<u> </u>	<u> </u>
DO <u> </u>	Fecal <u> </u>	TOP <u> </u>	<u> </u>	<u> </u>
BOD <u> </u>	Ammonia-N <u> </u>	Nitrate <u> </u>	<u> </u>	<u> </u>
TSS <u> </u>	<u>Oil & Grease</u>	<u>Phenols</u>	<u> </u>	<u> </u>
COD <u> </u>	Alkalinity <u> </u>	Res Cl <u> </u>	<u> </u>	<u> </u>

Relinquished by:	Date/Time	Received by:	Date/Time
<u>L.H. / L.H.</u>	<u>7/2/08 7:00 AM</u>	<u>Nick / Nick</u>	<u>7/2/08 7:30</u>

Relinquished by:	Date/Time	Received by:	Date/Time
<u>[Signature]</u>	<u>7/2/08 11:45</u>	<u>LAB</u>	<u>7/2/08 11:45</u>

(For Lab use only)

Client:

Received by: Date Time am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G</u> <u>P</u>	<u>1 L</u>	<u>Ice; Ice & H2SO4, NaOH, HNO3</u>		
	<u> </u>	<u>G</u> <u>P</u>	<u>500 ml</u>	<u>Ice; Ice & H2SO4, NaOH, HNO3</u>		
	<u> </u>	<u>G</u> <u>P</u>	<u>250 ml</u>	<u>Ice; Ice & H2SO4, NaOH, HNO3</u>		
Thiosulfate Present	<u>Y</u> <u>N</u>	<u>G</u> <u>P</u>	<u>125 ml</u>	<u>Ice; Ice & H2SO4, NaOH, HNO3</u>		
	<u> </u>	<u>G</u> <u>A</u>	<u>40 ml vial</u>	<u>Ice</u>		

Sample Condition Upon Receipt: Temp Deg. C. 4

Preserved Y N
Proper Container Y N

Sample Disposal: Return to Client Disposal by Lab X Archive

Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 2660Client: Thadex LLCSample Description: Effluent water Comp. Hr. GrabResidual Cl pH DO Temp Flow Collected by: L.P. Phil Date: 7/18/08 Time: 6:10 am pmTurn around Time: Normal Rush Specify Date

Hazard Identification:

☒ Non Hazard
☐ Flammable

☐ Skin Irritant
☐ Unknown
Matrix: Water/WastewaterOther Flawed water
(Description)Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:

Requested Lab Analyses:

			Metals	Other
pH <u> </u>	Carb BOD <u> </u>	TKN <u> </u>	<u> </u>	<u> </u>
DO <u> </u>	Fecal <u> </u>	TOP <u> </u>	<u> </u>	<u> </u>
BOD <u> </u>	Ammonia-N <u> </u>	Nitrate <u> </u>	<u> </u>	<u> </u>
TSS <u> </u>	<u>Oil & Grease</u>	<u>Phenols</u>	<u> </u>	<u> </u>
COD <u> </u>	Alkalinity <u> </u>	Res Cl <u> </u>	<u> </u>	<u> </u>

Relinquished by:	Date/Time	Received by:	Date/Time
<u>L.P. Phil</u>	<u>7/18/08 6:10 AM</u>	<u>[Signature]</u>	<u>7/18/08 9:00</u>

Relinquished by:	Date/Time	Received by:	Date/Time
<u>[Signature]</u>	<u>7/18/08 9:35</u>	<u>CAB</u>	<u>7/18/08 9:35</u>

(For Lab use only)

Client: Received by: Date Time am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G P</u>	<u>1 L</u>	<u>Ice; Ice & H2SO4</u>	<u>Y</u>	<u>Y</u>
	<u> </u>	<u>G P</u>	<u>500 ml</u>	<u>Ice; Ice & H2SO4</u>	<u>Y</u>	<u>Y</u>
	<u> </u>	<u>G P</u>	<u>250 ml</u>	<u>Ice; Ice & H2SO4</u>	<u>Y</u>	<u>Y</u>
Thiosulfate Present	<u>Y N</u>	<u>G P</u>	<u>125 ml</u>	<u>Ice; Ice & H2SO4</u>	<u>Y</u>	<u>Y</u>
	<u> </u>	<u>G A</u>	<u>40 ml vial</u>	<u>Ice</u>	<u>Y</u>	<u>Y</u>

Sample Condition Upon Receipt: Temp Deg. C. 4
 Preserved Y N
 Proper Container Y N
Sample Disposal: Return to Client Disposal by Lab Archive

4//2008

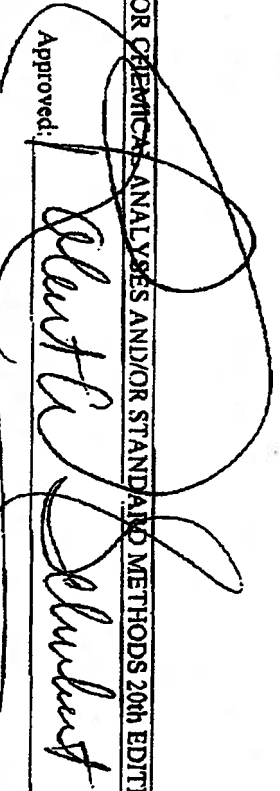
ENVIRO-LABS, INC.
608 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standard	Method Used
1641	Effluent	3/21/2008	TOTAL PHENOLS	10.20 mg/l			420.1
			OIL & GREASE	6 mg/l			1664
1751	Effluent	4/4/2008	TOTAL PHENOLS	9.95 mg/l			420.1
			OIL & GREASE	7 mg/l			1664

***THE TESTS PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved:



Analysis Request & Chain of Custody Record

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759

Lab I.D. # 1641

Client: Theodox LLC.

Sample Description: EFFLUENT well Comp. Hr. Grab

Residual Cl _____ pH _____ DO _____ Temp _____ Flow _____

Collected by: L.P. Liu Date: 3/21/08 Time: 7:00 am pm

Turn around Time: Normal _____ Rush _____ Specify Date _____

Hazard Identification: Non Hazard Flammable Skin Irritant Unknown

Matrix: Water/Wastewater Other ground water
(Description)

Calibrations: pH Meter Buffers _____ Date: _____ Time: _____ DO Meter: Date _____ Time: _____

Requested Lab Analyses:

			Metals	Other
pH _____	Carb BOD _____	TKN _____	_____	_____
DO _____	Fecal _____	TOP _____	_____	_____
BOD _____	Ammonia-N _____	Nitrate _____	_____	_____
TSS _____	<u>Oil & Grease</u> _____	<u>Phenols</u> _____	_____	_____
COD _____	Alkalinity _____	Res Cl _____	_____	_____

Relinquished by:	Date/Time	Received by:	Date/Time
<u>L.P. Liu</u>	<u>3/21/08 7:00 AM</u>	<u>Nellie N. Liu</u>	<u>3/21/08 8:30</u>

Relinquished by:	Date/Time	Received by:	Date/Time
<u>[Signature]</u>	<u>3/21/08 9:10</u>	<u>LAB</u>	<u>3/21/08 9:10</u>

(For Lab use only)

Client: _____

Received by: _____ Date _____ Time _____ am pm

Sample Container:	Quantity	Type	Size	Preserve	G	P
	<u>2</u>	<u>G P</u>	<u>1 L</u>	Ice; Ice & <u>H2SO4</u> , NaOH, HNO3		
	_____	<u>G P</u>	<u>500 ml</u>	Ice; Ice & <u>H2SO4</u> , NaOH, HNO3		
	_____	<u>G P</u>	<u>250 ml</u>	Ice; Ice & <u>H2SO4</u> , NaOH, HNO3		
Thiosulfate Present Y N	_____	<u>G P</u>	<u>125 ml</u>	Ice; Ice & <u>H2SO4</u> , NaOH, HNO3		
	_____	<u>G A</u>	<u>40 ml vial</u>	Ice		

Sample Condition Upon Receipt: Temp Deg. C. 4 Preserved N
Proper Container N

Sample Disposal: Return to Client Disposal by Lab Archive