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4/18/06  
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**WEST MEMPHIS UTILITY COMMISSION**  
604 East Cooper PO Box 1868  
West Memphis, Arkansas 72301  
Phone (870) 735-3355 Fax (870) 732-7623

March 27, 2006

Allen Gilliam  
NPDES Pretreatment Coordinator  
Arkansas Department of  
Environmental Quality  
8001 National Drive  
P O Box 8913  
Little Rock, AR 72219-8913



*AF*  
still no inspections?  
will e-mail Denise B.

Dear Mr. Gilliam,

In order to comply with 40 CFR part 403, the General Pretreatment Regulation, and our NPDES permit (AR00022039) the following is submitted to you:

- 1) Pretreatment Performance Summary,
- 2) Monitoring results for the annual pretreatment report,
- 3) Analysis of the Influent, Effluent and Sludge,
- 4) Copy of the statement to be submitted to the largest newspaper in the municipality (Evening Times) for publication (April 3 – May 2, 2006) and;
- 5) The following statement:  
For the period March 2005 through February 2006 there was one significant violator.

Langston Bag Company  
1100 North 7<sup>th</sup> Street  
West Memphis, AR 72301

I trust this fulfills the requirements. Please let me know if further information is required.

Sincerely,

Denise Bosnick  
Director, Environmental Quality

PRETREATMENT PERFORMANCE SUMMARY (PPS)

NOTE: ALL QUESTIONS REFER TO THE INDUSTRIAL PRETREATMENT PROGRAM AS APPROVED BY THE EPA. THE PERMITTEE SHOULD NOT ANSWER THE QUESTIONS BASED ON CHANGES MADE TO THE APPROVED PROGRAM WITHOUT DEPARTMENT AUTHORIZATION.

I. General Information

Control Authority Name West Memphis Utility Commission

Address PO Box 1868 / 604 East Cooper

City West Memphis State/Zip Arkansas / 72301

Contact Person Denise Bosnick POSITION Director of Environmental Quality

Contact Telephone (870) 735-3355  
(Area Code)

NPDES Permit Nos. AR0022039

Reporting Period March 2005 February 2006  
(Beginning Month and Year) (Ending Month and Year)

Total Number of Categorical IUs Three

Total Number of Significant Non-Categorical IUs Zero

Total Number of Non-Significant Non-Categorical IUs Five

II. Significant Non-Categorical User Compliance

	<u>SIGNIFICANT INDUSTRIAL USERS</u>	
	<u>Categorical</u>	<u>Non-Categorical</u>
1) No. of SIUs Submitting BMRs/Total No. Required.....	<u>2/3</u>	<u>N/A</u>
2) No. of SIUs Submitting 90-Day Compliance Reports/No. Required.....	<u>0/0</u>	<u>0/0</u>
3) No. of SIUs Submitting Semiannual Reports/ Total No. Required.....	<u>0/0</u>	<u>0/0</u>
4) No. of SIUs Meeting Compliance Schedule/ Total No. required to Meet Schedule.....	<u>0/0</u>	<u>0/0</u>
5) No. of SIUs in Significant Noncompliance/ Total No. of SIUs.....	<u>0/3</u>	<u>1/5</u>
6) Rate of Significant Noncompliance for all SIUs (categorical and non-categorical).....	<u>Based on 40 CFR 403.8(f)(2)(vii)</u>	

III. Compliance Monitoring Program

1) No. of Control documents Issued/Total No. Required .....	3/3	5/5
2) No. of Non-sampling Inspections Conducted.....	0/3	0/5
3) No. of Sampling Visits Conducted.....	Atleast one a month for all Industries	
4) No. of Facilities Inspected (non-sampling).....	0/3	0/5
5) No. of Facilities Sampled.....	3	5

IV. Enforcement Actions

1) No. of compliance Schedules Issued/No. of Schedules Required.....	0/0	0/0
2) No. of Notices of Violations Issued to SIUs.....	21	15
3) No. of Administrative orders Issued to SIUs.....	0	0
4) No. of Civil Suits Filed.....	0	0
5) No. of Criminal Suits Filed.....	0	0
6) No. of Significant Violators (attach newspaper publication).....	0	1
7) Amount of Penalties Collected (total dollars/ IUs assessed).....	0	0
8) Other Actions (sewer bans, etc.).....	0	0

The following certification must be signed in order for this form to be considered complete:

I certify that the information contained herein is complete and accurate to the best of my knowledge.

John Rimmer  
General Manager

3/30/06  
Date





## WEST MEMPHIS UTILITY COMMISSION

P O Box 1868 604 East Cooper

West Memphis, AR 72303

Phone (870) 735-3355 Fax (870) 732-7623

### Industrial Users For West Memphis, Arkansas

#### **Automated Conveyors Systems Inc.**

3850 Southland Drive  
West Memphis, AR 72301

#### Categorical Industry

North American Industry Classification System - 333922

Industrial Waste Discharge Permit Number - 02

Permit Issued - March 1, 2005 Expires - February 28, 2008

Samples are taken on a monthly basis for permit reporting, industry is checked daily and a grab sample is pulled when possible.

In a twelve month period there has been a total of 127 sampling visits made.

As of January 2006 they will no longer be discharging into the sewer system (letter enclosed).

Compliance Status – Compliant - no violations. ✓

#### **Coca-Cola Bottling Company**

1400 Rainer Road  
West Memphis, Arkansas 72301

#### Non-Significant Non-Categorical Industry

North American Industry Classification System - 312111

Industrial Waste Discharge Permit Number - 08

Permit Issued - March 1, 2005 Expires - February 28, 2008

Samples are taken twice a month for permit reporting, industry is checked daily and a grab sample is pulled when possible.

In a twelve month period there has been a total of 171 sampling visits made.

Compliance Status – Non-Compliant – 4 pH violations. ✓

#### **DIAZ Intermediates**

301 Wyanoke Road  
West Memphis, Arkansas 72301

#### Categorical Industry



Department of Environmental Quality

North American Industry Classification System – 32511  
Permit Issued – March 1, 2005 Expires – February 28, 2008  
Samples are taken on a monthly basis for permit reporting. This industry is batch discharge only and must notify us before they discharge. There are no daily grab samples pulled.  
In a twelve month period there has been a total of 43 sampling visits made.  
Compliance Status – Compliant - no violations.

**Grace Trailer Service**

615 Petro Cove  
West Memphis, Arkansas 72301

Categorical Industry  
North American Industry Classification System – 811192  
Industrial Waste Discharge Permit Number - 24  
Permit Issued – March 1, 2005 Expires – February 28, 2008  
Samples are taken on a monthly basis for permit reporting this is done twice a month. The industry is checked daily and a grab sample is pulled when possible.  
In a twelve month period there has been a total of 197 sampling visits made.  
Compliance Status - Non-Compliant- 9 pH violations, 10 Oil and Grease, 5 TPH Oil and Grease and 2 Mercury violations.

**Langston Bag**

1100 North 7th  
West Memphis, Arkansas 72301

Non-Significant Non-Categorical Industry  
North American Industry Classification System – 322224  
Industrial Waste Discharge Permit Number - 10  
Permit Issued - March 1, 2005 Expires - February 28, 2008  
Samples are taken on a monthly basis for permit reporting, industry is checked daily and a grab sample is pulled when possible.  
In a twelve month period there has been a total of 153 sampling visits made.  
Compliance Status -Non-Compliant- 12 copper violations.

**Nu-Way Products**

220 Garrison (213 Front)  
West Memphis, Arkansas 72301

Non-Significant Non-Categorical Industry  
North American Industry Classification System – 325612  
Industrial Waste Discharge Permit Number - 11  
Permit Issued - March 1, 2005 Expires - February 28, 2008



Samples are taken on a monthly basis for permit reporting. This industry is batch discharge only and must notify us before they discharge. There are no daily grab samples pulled.

In a twelve month period there has been a total of 3 sampling visits made.

Compliance Status – Compliant - no violations. ✓

**Temple-Inland**

540 East Barton

West Memphis, Arkansas 72301

Non-Significant Non-Categorical Industry

North American Industry Classification System – 32742

Industrial Waste Discharge Permit Number - 14

Permit Issued - March 1, 2005 Expires - February 28, 2008

Samples are taken on a monthly basis for permit reporting, industry is checked daily and a grab sample is pulled when possible.

In a twelve month period there has been a total of 43 sampling visits made.

Compliance Status – Compliant - no violations. ✓

**Weyerhaeuser**

1235 North 7th

West Memphis, Arkansas 72301

Non-Significant Non-Categorical Industry

North American Industry Classification System – 322211

Industrial Waste Discharge Permit Number - 07

Permit Issued - March 1, 2005 Expires - February 28, 2008

Samples are taken on a monthly basis for permit reporting, industry is checked daily and a grab sample is pulled when possible.

In a twelve month period there has been a total of 138 sampling visits.

Compliance Status -Non-Compliant- 7 pH violations.





**P.O. Box 130 / Memphis, Tennessee 38101 / (870) 732-5050 / FAX (870) 732-5191  
Plant Address: 3850 Southland Drive / West Memphis, Arkansas 72301**

February 10, 2006

Ms. Denise Bosnick  
West Memphis Utility Commission  
P.O. Box 1868  
West Memphis, AR 72303

Dear Ms. Bosnick,

I am writing this letter to make you aware of some changes that are taking place at Automated Conveyor Systems, Inc. We are currently in the process of replacing our wet paint system with a new powder-coat paint system.

Early in January, we pulled out the 3-stage washer and replaced it with a 4-stage washer. The new 4-stage washer will use much less heat if any at all (not over 90 degrees). Houghto-Prep ZP, a cleaning agent, will be used in the first stage. I have included the MSDS sheet for this cleaner. This chemical will not create sludge. We have also been told that the washer can run with this chemical for two-plus years without being dumped.

The remaining three stages are rinse stages. Fresh water will only be added in the fourth stage and there will be no overflow. Stages 1, 2, and 3 will be refurbished with water from stage 4.

At this time, we will not be discharging anything into the sewer system. If we need to discharge anything, then we will notify you in advance.

If you have any questions about this new washer or would like to visit our facility, please give me a call or stop by anytime.

Sincerely,

*Kimberly Carpenter*

Kimberly Carpenter  
Human Resources



MONITORING RESULTS<sup>1</sup> FOR THE ANNUAL PRETREATMENT REPORT  
 REPORTING YEAR: March, 2005 TO February, 2006  
 TREATMENT PLANT: City of West Memphis NPDES PERMIT #AR0022039  
 AVERAGE POTW FLOW: 3.5 MGD % IU FLOW 15%

METALS, CYANIDE and PHENOLS	Monthly Average Effluent Level <sup>2</sup>	Influent <sup>3</sup> Dates Sampled				Effluent <sup>3</sup> Dates Sampled			
		7/17/2005	9/29/2005	12/19/2005	2/22/2006	7/17/2005	9/29/2005	12/19/2005	2/22/2006
Antimony (Total)		<0.010		<0.010	<0.010	<0.010		<0.010	<0.010
Arsenic (Total)		<0.010		<0.010	<0.010	<0.010		<0.010	<0.010
Beryllium (Total)		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
Cadmium (Total)		<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001
Chromium (Total)		<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper (Total)		0.046	0.101	0.070	0.074	0.011	0.010	<0.005	0.038
Lead (Total)		<0.002	<0.006	0.006	0.002	<0.002	<0.006	<0.005	<0.002
Mercury (Total)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
Molybdenum (Total)									
Nickel (Total)		<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	0.006
Selenium (Total)		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
Silver (Total)		<0.002	0.007	<0.002	<0.002	<0.002	<0.005	<0.002	<0.002
Thallium (Total)		<0.010		<0.010	<0.010	<0.010		<0.010	<0.010
Zinc (Total)		0.072	0.118	0.155	0.111	0.053	0.040	0.058	0.068
Cyanide (Total)		<0.010		<0.010	<0.010	<0.010		<0.010	<0.010
Phenols (Total)									
<sup>4</sup>		0.023		0.022	<0.005	<0.005		0.009	<0.005
Chloroform					1.62				1.27
1,4-Dichlorobenzene					4.20				
Ethylbenzene					3.41				
Methylene chloride					11.6				
Styrene					23.1				
Toluene					5.11				
Bis(2-ethylhexyl)phthalate					46.8				
Di-n-butyl-phthalate					9.88				
Diethyl phthalate					6.57				
Naphthalene					2.70				
Phenol					6.87				
alpha-BHC					0.0561				
delta-BHC					0.0945				

J - estimated value    B - detected in blank

<sup>1</sup> It is advised that the influent and effluent samples are collected considering flow detention time through each plant. Analytical MQLs should be used so that the date can also be used for Local Limits assessment and NPDES application purposes.

<sup>2</sup> Monthly average effluent limit is based on State Water Quality Standards and implementation procedures.

<sup>3</sup> Indicate reported units of measurement.

<sup>4</sup> Record the names of any pollutants [40 CFR 122, Appendix D, Table II and/or Table V] detected and the quantity in which they were detected.



## **WEST MEMPHIS UTILITY COMMISSION**

PO Box 1868 604 East Cooper  
Telephone (501) 735-3355 Fax (501) 732-7623  
West Memphis, Arkansas 72301

**The West Memphis Utility Commission and the City of West Memphis is required in its National Pollutant Discharge Elimination System Permit (NPDES) to list significant violators to the industrial pretreatment program. This is a requirement by the United States Environmental Protection Agency and the State of Arkansas Department of Environmental Quality.**

**For this reporting period March 2005 - February 2006 there was one significant violators for this reporting period. This was due to Technical Review Criteria (TRC) violation.**

**Langston Bag Company  
1100 North 7<sup>th</sup> Street  
West Memphis, AR 72301**



**ENVIRONMENTAL TESTING & CONSULTING, INC.**

2790 Whitten Road Memphis, TN 38133 (901)213-2400 FAX (901)213-2440  
www.etcmemphis.com

"Laboratory Management Partner"

July 31, 2005

Ms. Denise Bosnick  
West Memphis Utility  
P. O. Box 1868  
West Memphis, AR 72301

Ref: Analytical Testing  
Lab Order Number 0507465  
Project Description ~~Drinking Water~~

Environmental Testing and Consulting, Inc. received 14 sample(s) on 7/18/2005 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The EPA requires that analysis for pH, dissolved oxygen and total residual chlorine be analyzed in the field. Analyses and results reported which do not indicate "Field" for these parameters were analyzed outside the holding time as specified in Table II of 40 CFR Part 136.3.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA, NELAP, and USACE.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randall H. Thomas  
Laboratory Project Manager  
Attachment  
WESTMEM

*Certifications*

Alabama	#40750	Louisiana	#04015	Florida	E87943
Arkansas	#88-0650	Mississippi		Pennsylvania	68-3195
Illinois	#200015	Oklahoma	#9311	USDA	#S-46279
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012
Kentucky UST	#41	Virginia	#00106	NELAP	#04015



U.S. Army Corps of Engineer





# ENVIRONMENTAL TESTING & CONSULTING, INC.

2790 Whitten Road Memphis, TN 38133 (901)213-2400 FAX (901)213-2440  
www.etc-memphis.com

"Laboratory Management Partner"

West Memphis Utility  
P. O. Box 1868

Project **Drinking Water**  
Description

West Memphis, AR 72301

Lab Order Number **0507465**

Lab ID ~~0507465-007~~  
Field ID ~~Grace Trailers~~

Received **07/18/05**  
Matrix **Aqueous**  
Sampled **07/13/05 8:16**

Test	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method
<del>607-HEM (TPH)</del>	<del>5</del>	mg/L	5	1	07/29/05 8:00	DS	1664

Lab ID ~~0507465-008~~  
Field ID ~~Grace Trailers 7/13-14/05~~

Received **07/18/05**  
Matrix **Aqueous**  
Sampled **07/14/05 8:16**

Test	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method
<del>Copper</del>	<del>0.040</del>	mg/L	0.005	1	07/20/05 17:31	JTR	200.7
<del>Mercury</del>	<del>0.0002</del>	mg/L	0.0002	1	07/20/05 14:02	JF	245.1

Lab ID **0507465-009**  
Field ID **Influent WWTP Grab**

Received **07/18/05**  
Matrix **Aqueous**  
Sampled **07/17/05 9:25**

Test	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method
Cyanide, Total	< 0.010	mg/L	0.010	1	07/20/05 10:20	GD	335.2 (MIDI)
Phenolics, Total Recoverable	0.023	mg/L	0.005	1	07/25/05 12:30	JF	420.1

**Qualifiers/  
Definitions**

\* Surrogate Recovery outside accepted limits  
DF Dilution Factor  
H Analyzed out of holding time.  
MDL Method Detection Limit (unadjusted)  
MRL Method Reporting Limit

B Analyte detected in the associated Method Blank  
E Value exceeds method calibration range  
J Estimated Value Analyte below reported detection limit  
MQL Method Quantitation Limit  
SQL Sample Quantitation Limit (adjusted MDL)



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**West Memphis Utility**  
P. O. Box 1868

**Project** Drinking Water  
**Description**

West Memphis, AR 72301

Lab Order Number **0507465**

Lab ID **0507465-010**

Field ID **Influent WWTP Composite 7/17-18/05**

Received **07/18/05**

Matrix **Aqueous**

Sampled **07/18/05 9:25**

Test	Result	Units	ML	DF	Date/Time Analyzed	By	Analytical Method
Silver	< 0.002	mg/L	0.002	1	07/20/05 17:37	JTR	200.7
Arsenic	< 0.010	mg/L	0.010	1	07/20/05 17:37	JTR	200.7
Beryllium	< 0.005	mg/L	0.005	1	07/20/05 17:37	JTR	200.7
Cadmium	< 0.001	mg/L	0.001	1	07/20/05 17:37	JTR	200.7
Chromium	< 0.005	mg/L	0.005	1	07/20/05 17:37	JTR	200.7
<b>Copper</b>	<b>0.046</b>	<b>mg/L</b>	<b>0.005</b>	<b>1</b>	<b>07/20/05 17:37</b>	<b>JTR</b>	<b>200.7</b>
Nickel	< 0.005	mg/L	0.005	1	07/20/05 17:37	JTR	200.7
Lead	< 0.002	mg/L	0.002	1	07/20/05 17:37	JTR	200.7
Antimony	< 0.010	mg/L	0.010	1	07/20/05 17:37	JTR	200.7
Selenium	< 0.005	mg/L	0.005	1	07/20/05 17:37	JTR	200.7
Thallium	< 0.010	mg/L	0.010	1	07/20/05 17:37	JTR	200.7
<b>Zinc</b>	<b>0.072</b>	<b>mg/L</b>	<b>0.010</b>	<b>1</b>	<b>07/20/05 17:37</b>	<b>JTR</b>	<b>200.7</b>
Mercury	< 0.0002	mg/L	0.0002	1	07/20/05 14:02	JF	245.1

Lab ID **0507465-011**

Field ID **Effluent WWTP Grab**

Received **07/18/05**

Matrix **Aqueous**

Sampled **07/17/05 9:15**

Test	Result	Units	ML	DF	Date/Time Analyzed	By	Analytical Method
Cyanide, Total	< 0.010	mg/L	0.010	1	07/20/05 10:20	GD	335.2 (MIDI)
Phenolics, Total Recoverable	< 0.005	mg/L	0.005	1	07/25/05 12:30	JF	420.1

**Qualifiers/  
Definitions**

- \* Surrogate Recovery outside accepted limits
- DF Dilution Factor
- H Analyzed out of holding time.
- MDL Method Detection Limit (unadjusted)
- MRL Method Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value exceeds method calibration range
- J Estimated Value Analyte below reported detection limit
- SQL Sample Quantitation Limit (adjusted MDL)



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A Laboratory Management Partner

**West Memphis Utility**  
P. O. Box 1868

**Project Drinking Water**  
**Description**

West Memphis, AR 72301

Lab Order Number **0507465**

Lab ID **0507465-012**  
Field ID **Effluent WWTP Composite 7/17-18/05**

Received **07/18/05**  
Matrix **Aqueous**  
Sampled **07/18/05 9:15**

Test	Result	Units	MLL	DF	Date/Time Analyzed	By	Analytical Method
Silver	< 0.002	mg/L	0.002	1	07/20/05 17:57	JTR	200.7
Arsenic	< 0.010	mg/L	0.010	1	07/20/05 17:57	JTR	200.7
Beryllium	< 0.005	mg/L	0.005	1	07/20/05 17:57	JTR	200.7
Cadmium	< 0.001	mg/L	0.001	1	07/20/05 17:57	JTR	200.7
Chromium	< 0.005	mg/L	0.005	1	07/20/05 17:57	JTR	200.7
<b>Copper</b>	<b>0.011</b>	<b>mg/L</b>	<b>0.005</b>	<b>1</b>	<b>07/20/05 17:57</b>	<b>JTR</b>	<b>200.7</b>
Nickel	< 0.005	mg/L	0.005	1	07/20/05 17:57	JTR	200.7
Lead	< 0.002	mg/L	0.002	1	07/20/05 17:57	JTR	200.7
Antimony	< 0.010	mg/L	0.010	1	07/20/05 17:57	JTR	200.7
Selenium	< 0.005	mg/L	0.005	1	07/20/05 17:57	JTR	200.7
Thallium	< 0.010	mg/L	0.010	1	07/20/05 17:57	JTR	200.7
<b>Zinc</b>	<b>0.053</b>	<b>mg/L</b>	<b>0.010</b>	<b>1</b>	<b>07/20/05 17:57</b>	<b>JTR</b>	<b>200.7</b>
Mercury	< 0.0002	mg/L	0.0002	1	07/20/05 14:02	JF	245.1

Lab ID **0507465-013**  
Field ID **Sludge WWTP**

Received **07/18/05**  
Matrix **Sludge**  
Sampled **07/18/05 9:40**

Test	Result	Units	MLL	DF	Date/Time Analyzed	By	Analytical Method
Cyanide	< 1.00	mg/Kg	1.00	1	07/26/05 7:45	GD	9010B
<b>Paint Filter</b>	<b>Pass</b>			<b>1</b>	<b>07/27/05 17:33</b>	<b>GD</b>	<b>9095A</b>
Phenolics, Total Recoverable	< 1.25	mg/Kg	1.25	1	07/29/05 9:00	JF	9065
<b>Percent Moisture</b>	<b>86.9</b>	<b>wt%</b>		<b>1</b>	<b>07/21/05 0:00</b>	<b>EA</b>	<b>160.3</b>

<b>Qualifiers/</b>	*	Surrogate Recovery outside accepted limits	B	Analyte detected in the associated Method Blank
<b>Definitions</b>	DF	Dilution Factor	E	Value exceeds method calibration range
	H	Analyzed out of holding time.	J	Estimated Value Analyte below reported detection limit
	MDL	Method Detection Limit (unadjusted)	SQL	Sample Quantitation Limit (adjusted MDL)
	MRL	Method Reporting Limit		
			MLL	Method Quantitation Limit



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**West Memphis Utility**  
P. O. Box 1868

Project **Drinking Water**  
Description

West Memphis, AR 72301

Lab Order Number **0507465**  
Lab ID **0507465-013A**  
Field ID **Sludge WWTP**

Received **07/18/05**  
Matrix **Sludge**  
Sampled **07/18/05**

## 1311 TCLP Characterization

Prep Batch 5952

Date/Time 07/18/05 0:00

Leachate

### ICP Metals

Prep Method	3005A	Prep Batch	6024	Date/Time Prepped	07/25/05 8:54	Analytical Batch	8910		
Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method		
Silver - TCLP	< 0.005	mg/L	0.005	1	07/25/05 21:41	JTR	6010B		
Arsenic - TCLP	< 0.025	mg/L	0.025	1	07/25/05 21:41	JTR	6010B		
Barium - TCLP	<b>0.076</b>	mg/L	<b>0.025</b>	<b>1</b>	<b>07/25/05 21:41</b>	<b>JTR</b>	<b>6010B</b>		
Beryllium - TCLP	< 0.010	mg/L	0.010	1	07/25/05 21:41	JTR	6010B		
Cadmium - TCLP	< 0.005	mg/L	0.005	1	07/25/05 21:41	JTR	6010B		
Chromium - TCLP	< 0.010	mg/L	0.010	1	07/25/05 21:41	JTR	6010B		
Copper - TCLP	<b>0.043</b>	mg/L	<b>0.025</b>	<b>1</b>	<b>07/25/05 21:41</b>	<b>JTR</b>	<b>6010B</b>		
Nickel - TCLP	< 0.025	mg/L	0.025	1	07/25/05 21:41	JTR	6010B		
Lead - TCLP	< 0.010	mg/L	0.010	1	07/25/05 21:41	JTR	6010B		
Antimony - TCLP	< 0.025	mg/L	0.025	1	07/25/05 21:41	JTR	6010B		
Selenium - TCLP	< 0.050	mg/L	0.050	1	07/25/05 21:41	JTR	6010B		
Thallium - TCLP	< 0.020	mg/L	0.020	1	07/25/05 21:41	JTR	6010B		
Zinc - TCLP	<b>0.263</b>	mg/L	<b>0.025</b>	<b>1</b>	<b>07/25/05 21:41</b>	<b>JTR</b>	<b>6010B</b>		

### Mercury

Prep Method	7470A	Prep Batch	5965	Date/Time Prepped	07/20/05 0:00	Analytical Batch	8837		
Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method		
Mercury - TCLP	< 0.0010	mg/L	0.0010	1	07/20/05 14:02	JF	7470A		

<b>Qualifiers/</b>	* Surrogate Recovery outside accepted limits	B Analyte detected in the associated Method Blank
<b>Definitions</b>	DF Dilution Factor	E Value exceeds method calibration range
	H Analyzed out of holding time.	J Estimated Value Analyte below reported detection limit
	MDL Method Detection Limit (unadjusted)	MQL Method Quantitation Limit
	MRL Method Reporting Limit	SQL Sample Quantitation Limit (adjusted MDL)



# ENVIRONMENTAL TESTING & CONSULTING, INC.

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"A Laboratory Management Partner"

**West Memphis Utility**  
P. O. Box 1868  
West Memphis, AR 72301

Project **Drinking Water**  
Description

Lab Order Number **0507465**

Received **07/18/05**

Lab ID **0507465-013B**

Matrix **Sludge**

Field ID **Sludge WWTP**

Sampled **07/18/05**

## PCB's

Prep Method	3550B	Prep Batch	5977	Date/Time Prepped	07/19/05 14:00	Analytical Batch	8924		
Compound	Result	Units	ML	DF	Date/Time Analyzed	By	Analytical Method		
Aroclor 1016	< 2,670	µg/Kg-dry	2,670	10	07/25/05 4:21	DPC	8082		
Aroclor 1221	< 2,670	µg/Kg-dry	2,670	10	07/25/05 4:21	DPC	8082		
Aroclor 1232	< 2,670	µg/Kg-dry	2,670	10	07/25/05 4:21	DPC	8082		
Aroclor 1242	< 2,670	µg/Kg-dry	2,670	10	07/25/05 4:21	DPC	8082		
Aroclor 1248	< 2,670	µg/Kg-dry	2,670	10	07/25/05 4:21	DPC	8082		
Aroclor 1254	< 2,670	µg/Kg-dry	2,670	10	07/25/05 4:21	DPC	8082		
Aroclor 1260	< 2,670	µg/Kg-dry	2,670	10	07/25/05 4:21	DPC	8082		
	Surrogate: Decachlorobiphenyl		68 %		Limits: 17-141				
	Surrogate: Tetrachloro-m-xylene		85 %		Limits: 20-122				

### Qualifiers/Definitions

- \* Surrogate Recovery outside accepted limits
- DF Dilution Factor
- H Analyzed out of holding time.
- MDL Method Detection Limit (unadjusted)
- MRL Method Reporting Limit
- B Analyte detected in the associated Method Blank
- E Value exceeds method calibration range
- J Estimated Value Analyte below reported detection limit
- SQL Method Quantitation Limit
- SQL Sample Quantitation Limit (adjusted MDL)





October 24, 2005

Ms. Denise Bosnick  
West Memphis Utility  
P. O. Box 1868  
West Memphis, AR 72301

Ref: Analytical Testing  
Lab Order Number 0509887  
Project Description Industries

Environmental Testing and Consulting, Inc. received 12 sample(s) on 9/29/2005 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The EPA requires that analysis for pH, dissolved oxygen and total residual chlorine be analyzed in the field. Analyses and results reported which do not indicate "Field" for these parameters were analyzed outside the holding time as specified in Table II of 40 CFR Part 136.3.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA, NELAP, and USACE.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randall H. Thomas  
Laboratory Project Manager

Attachment  
WESTMEM

*Certifications*

Alabama	#40750	Louisiana	#04015	Florida	E87943
Arkansas	#88-0650	Mississippi		Pennsylvania	68-3195
Illinois	#200015	Oklahoma	#9311	USDA	#S-46279
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012
Kentucky UST	#41	Virginia	#00106	NELAP	#04015



U.S. Army Corps of Engineer

nelac



West Memphis Utility  
P. O. Box 1868

Project Industries  
Description

West Memphis, AR 72301

Lab Order Number 0509887

Lab ID 0509887-010  
Field ID ~~Weyerhaeuser 9/20-21/05~~

Received 09/29/05  
Matrix Aqueous  
Sampled 09/21/05 7:29

Test	Result	Units	ML	DF	Date/Time Analyzed	By	Analytical Method
<del>Copper</del>	<del>0.026</del>	mg/L	0.005	1	10/07/05 5:50	JTR	200.7

Lab ID 0509887-011  
Field ID Influent-WWTP 9/28-29/05

Received 09/29/05  
Matrix Aqueous  
Sampled 09/29/05 8:18

Test	Result	Units	ML	DF	Date/Time Analyzed	By	Analytical Method
Silver	0.007	mg/L	0.005	1	10/07/05 6:10	JTR	200.7
Cadmium	< 0.002	mg/L	0.002	1	10/07/05 6:10	JTR	200.7
Chromium	0.005	mg/L	0.005	1	10/07/05 6:10	JTR	200.7
Copper	0.101	mg/L	0.005	1	10/07/05 6:10	JTR	200.7
Nickel	0.006	mg/L	0.005	1	10/07/05 6:10	JTR	200.7
Lead	< 0.006	mg/L	0.006	1	10/07/05 6:10	JTR	200.7
Zinc	0.118	mg/L	0.010	1	10/07/05 6:10	JTR	200.7

Qualifiers/Definitions

- \* Surrogate Recovery outside accepted limits
- B Analyte detected in the associated Method Blank
- E Value exceeds method calibration range
- J Estimated Value Analyte below reported detection limit
- MDL Method Detection Limit (unadjusted)
- MRL Method Reporting Limit

- \* I Recoveries affected by interferences or high background.
- DF Dilution Factor
- H Analyzed out of holding time.
- M Minimum value. see Narrative.
- ML Method Quantitation Limit
- SQL Sample Quantitation Limit (adjusted MDL)



West Memphis Utility  
P. O. Box 1868

Project Industries  
Description

West Memphis, AR 72301

Lab Order Number 0509887

Lab ID 0509887-012  
Field ID Effluent WWTP 9/28-29/05

Received 09/29/05  
Matrix Aqueous  
Sampled 09/29/05 8:25

Test	Result	Units	SQL	DF	Date/Time Analyzed	By	Analytical Method
Silver	< 0.005	mg/L	0.005	1	10/07/05 6:16	JTR	200.7
Cadmium	< 0.002	mg/L	0.002	1	10/07/05 6:16	JTR	200.7
Chromium	< 0.005	mg/L	0.005	1	10/07/05 6:16	JTR	200.7
<b>Copper</b>	<b>0.010</b>	<b>mg/L</b>	<b>0.005</b>	<b>1</b>	<b>10/07/05 6:16</b>	<b>JTR</b>	<b>200.7</b>
Nickel	< 0.005	mg/L	0.005	1	10/07/05 6:16	JTR	200.7
Lead	< 0.006	mg/L	0.006	1	10/07/05 6:16	JTR	200.7
<b>Zinc</b>	<b>0.040</b>	<b>mg/L</b>	<b>0.010</b>	<b>1</b>	<b>10/07/05 6:16</b>	<b>JTR</b>	<b>200.7</b>

Qualifiers/  
Definitions

- \* Surrogate Recovery outside accepted limits
- \* I Recoveries affected by interferences or high background.
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- E Value exceeds method calibration range
- H Analyzed out of holding time.
- J Estimated Value Analyte below reported detection limit
- M Minimum value, see Narrative.
- MDL Method Detection Limit (unadjusted)
- SQL Method Quantitation Limit
- MRL Method Reporting Limit
- SQL Sample Quantitation Limit (adjusted MDL)



# ENVIRONMENTAL TESTING & CONSULTING, INC.

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"A Laboratory Management Partner"

January 06, 2006

Ms. Denise Bosnick  
West Memphis Utility  
P. O. Box 1868  
West Memphis, AR 72301

Ref: Analytical Testing  
Lab Order Number 0512638  
Project Description Industries

Environmental Testing and Consulting, Inc. received 12 sample(s) on 12/19/2005 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The EPA requires that analysis for pH, dissolved oxygen and total residual chlorine be analyzed in the field. Analyses and results reported which do not indicate "Field" for these parameters were analyzed outside the holding time as specified in Table II of 40 CFR Part 136.3.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA, NELAP, and USACE.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Connie Bradberry  
Laboratory Project Manager

Attachment

WESTMEM

### Certifications

Alabama	#40750	Louisiana	#04015	Florida	E87943
Arkansas	#88-0650	Mississippi		Pennsylvania	68-3195
Illinois	#200015	Oklahoma	#9311	USDA	#S-46279
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012
Kentucky UST	#41	Virginia	#00106	NELAP	#04015



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"Laboratory Management Perfection"

**West Memphis Utility**  
P. O. Box 1868

**Project Industries**  
**Description**

West Memphis, AR 72301

Lab Order Number **0512638**

Lab ID ~~0512638-007~~  
Field ID ~~Langston Bag Grab~~

Received **12/19/05**  
Matrix **Aqueous**  
Sampled **12/06/05 00:00**

Test	Result	Units	MLL	DF	Date/Time Analyzed	By	Analytical Method
<del>HEM (Oil &amp; Grease)</del>	<del>←5</del>	mg/L	5	1	12/22/05 07:00	DS	1664

Lab ID **0512638-008**  
Field ID **Influent WWTP Grab**

Received **12/19/05**  
Matrix **Aqueous**  
Sampled **12/19/05 08:35**

Test	Result	Units	MLL	DF	Date/Time Analyzed	By	Analytical Method
Cyanide, Total	< 0.010	mg/L	0.010	1	12/28/05 09:10	GD	335.2 (MIDI)
HEM (Oil & Grease)	24	mg/L	5	1	12/22/05 11:00	MB	1664
Phenolics, Total Recoverable	0.022	mg/L	0.006	1.15	01/05/06 09:35	RKT	420.1

**Qualifiers/  
Definitions**

- \* Surrogate Recovery outside accepted limits
- B Analyte detected in the associated Method Blank
- E Value exceeds method calibration range
- J Estimated Value Analyte below reported detection limit
- MDL Method Detection Limit (unadjusted)
- MRL Method Reporting Limit
- \* I Recoveries affected by interferences or high background.
- DF Dilution Factor
- H Prepped / Analyzed out of holding time.
- M Minimum value.
- MLL Method Quantitation Limit
- SQL Sample Quantitation Limit (adjusted MDL)



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**West Memphis Utility**  
P. O. Box 1868

**Project Industries**  
Description

West Memphis, AR 72301

Lab Order Number **0512638**

Lab ID **0512638-009**

Field ID **Influent WWTP 12/18-19/05**

Received **12/19/05**

Matrix **Aqueous**

Sampled **12/19/05 08:35**

Test	Result	Units	MQL	DF	Date/Time		Analytical Method
					Analyzed	By	
Silver	< 0.002	mg/L	0.002	1	12/22/05 07:25	JTR	200.7
Arsenic	< 0.010	mg/L	0.010	1	12/22/05 07:25	JTR	200.7
Beryllium	< 0.005	mg/L	0.005	1	12/22/05 07:25	JTR	200.7
Cadmium	< 0.001	mg/L	0.001	1	12/22/05 07:25	JTR	200.7
Chromium	< 0.005	mg/L	0.005	1	12/22/05 07:25	JTR	200.7
Copper	<b>0.070</b>	<b>mg/L</b>	<b>0.005</b>	<b>1</b>	<b>12/22/05 07:25</b>	<b>JTR</b>	<b>200.7</b>
Nickel	< 0.005	mg/L	0.005	1	12/22/05 07:25	JTR	200.7
Lead	<b>0.006</b>	<b>mg/L</b>	<b>0.005</b>	<b>1</b>	<b>12/22/05 07:25</b>	<b>JTR</b>	<b>200.7</b>
Antimony	< 0.010	mg/L	0.010	1	12/22/05 07:25	JTR	200.7
Selenium	< 0.005	mg/L	0.005	1	12/22/05 07:25	JTR	200.7
Thallium	< 0.010	mg/L	0.010	1	12/22/05 07:25	JTR	200.7
Zinc	<b>0.155</b>	<b>mg/L</b>	<b>0.010</b>	<b>1</b>	<b>12/22/05 07:25</b>	<b>JTR</b>	<b>200.7</b>
Mercury	< 0.0002	mg/L	0.0002	1	12/20/05 13:33	KS	245.1
Biochemical Oxygen Demand	174	mg/L	5	1	12/19/05 14:45	KMN	405.1
Chemical Oxygen Demand	511	mg/L	15	1	12/22/05 08:15	RKT	5220 C/D
pH	7.1	SU		1	12/19/05 15:25	KC	150.1
Total Suspended Solids	194	mg/L	2	1	12/20/05 10:40	GD	160.2

Received **12/19/05**

Lab ID **0512638-010**

Field ID **Effluent WWTP Grab**

Matrix **Aqueous**

Sampled **12/19/05 08:20**

Test	Result	Units	MQL	DF	Date/Time		Analytical Method
					Analyzed	By	
Cyanide, Total	< 0.010	mg/L	0.010	1	12/28/05 12:50	GD	335.2 (MIDI)
HEM (Oil & Grease)	< 5	mg/L	5	1	12/22/05 11:00	MB	1664
Phenolics, Total Recoverable	<b>0.009</b>	<b>mg/L</b>	<b>0.009</b>	<b>1.79</b>	<b>01/05/06 09:35</b>	<b>RKT</b>	<b>420.1</b>

**Qualifiers/  
Definitions**

- \* Surrogate Recovery outside accepted limits
- B Analyte detected in the associated Method Blank
- E Value exceeds method calibration range
- J Estimated Value Analyte below reported detection limit
- MDL Method Decision Limit (unadjusted)
- MRL Method Reporting Limit

- \* I Recoveries affected by interferences or high background.
- DF Dilution Factor
- H Prepped / Analyzed out of holding time.
- M Minimum value.
- MQL Method Quantitation Limit
- SQL Sample Quantitation Limit (adjusted MDL)



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**West Memphis Utility**  
P. O. Box 1868

Project **Industries**  
Description

West Memphis, AR 72301

Lab Order Number **0512638**

Lab ID **0512638-011**

Field ID **Effluent WWTP 12/18-19/05**

Received **12/19/05**

Matrix **Aqueous**

Sampled **12/19/05 08:20**

Test	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method
Silver	< 0.002	mg/L	0.002	1	12/22/05 07:32	JTR	200.7
Arsenic	< 0.010	mg/L	0.010	1	12/22/05 07:32	JTR	200.7
Beryllium	< 0.005	mg/L	0.005	1	12/22/05 07:32	JTR	200.7
Cadmium	< 0.001	mg/L	0.001	1	12/22/05 07:32	JTR	200.7
Chromium	< 0.005	mg/L	0.005	1	12/22/05 07:32	JTR	200.7
Copper	< 0.005	mg/L	0.005	1	12/22/05 07:32	JTR	200.7
Nickel	< 0.005	mg/L	0.005	1	12/22/05 07:32	JTR	200.7
Lead	< 0.005	mg/L	0.005	1	12/22/05 07:32	JTR	200.7
Antimony	< 0.010	mg/L	0.010	1	12/22/05 07:32	JTR	200.7
Selenium	< 0.005	mg/L	0.005	1	12/22/05 07:32	JTR	200.7
Thallium	< 0.010	mg/L	0.010	1	12/22/05 07:32	JTR	200.7
Zinc	<b>0.058</b>	mg/L	<b>0.010</b>	1	12/22/05 07:32	JTR	<b>200.7</b>
Mercury	< 0.0002	mg/L	0.0002	1	12/20/05 13:33	KS	245.1
Biochemical Oxygen Demand	<b>10</b>	mg/L	<b>5</b>	1	12/19/05 14:45	KMN	<b>405.1</b>
Chemical Oxygen Demand	<b>39</b>	mg/L	<b>15</b>	1	12/22/05 08:15	RKT	<b>5220 C/D</b>
pH	<b>7.1</b>	SU		1	12/19/05 15:25	KC	<b>150.1</b>
Total Suspended Solids	<b>10</b>	mg/L	<b>2</b>	1	12/20/05 10:40	GD	<b>160.2</b>

Received **12/19/05**

Lab ID **0512638-012**

Field ID **Sludge WWTP**

Matrix **Sludge**

Sampled **12/19/05 08:25**

Test	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method
Cyanide	< 1.00	mg/Kg	1.00	1	12/23/05 09:45	GD	9010B
Paint Filter	Pass			1	12/29/05 14:00	DS	9095A
Phenolics, Total Recoverable	<b>6.63</b>	mg/Kg	<b>1.25</b>	1	01/03/06 09:17	RKT	<b>9065</b>
Percent Moisture	<b>89.2</b>	wt%		1	12/20/05 00:00	EA	<b>160.3</b>

**Qualifiers/  
Definitions**

- \* Surrogate Recovery outside accepted limits
- B Analyte detected in the associated Method Blank
- E Value exceeds method calibration range
- J Estimated Value Analyte below reported detection limit
- MDL Method Detection Limit (unadjusted)
- MRL Method Reporting Limit

- \* I Recoveries affected by interferences or high background.
- DF Dilution Factor
- H Prepped / Analyzed out of holding time.
- M Minimum value.
- MQL Method Quantitation Limit
- SQL Sample Quantitation Limit (adjusted MDL)



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"A Laboratory Management Partner"

**West Memphis Utility**  
P. O. Box 1868

Project **Industries**  
Description

West Memphis, AR 72301

Lab Order Number **0512638**

Received **12/19/05**

Lab ID **0512638-012B**

Matrix **Sludge**

Field ID **Sludge WWTP**

Sampled **12/19/05**

## 1311 TCLP Characterization

Prep Batch 8102

Date/Time 12/20/05 15:20

Leachate

### ICP Metals

Prep Method 3005A

Prep Batch 8139

Date/Time Prepped 12/23/05 08:21

Analytical Batch 12335

Compound	Result	Units	ML	DF	Date/Time Analyzed	By	Analytical Method
Silver - TCLP	< 0.005	mg/L	0.005	1	12/28/05 11:36	JTR	6010B
Arsenic - TCLP	< 0.025	mg/L	0.025	1	12/28/05 11:36	JTR	6010B
<b>Barium - TCLP</b>	<b>0.082</b>	<b>mg/L</b>	<b>0.025</b>	<b>1</b>	<b>12/28/05 11:36</b>	<b>JTR</b>	<b>6010B</b>
Beryllium - TCLP	< 0.010	mg/L	0.010	1	12/28/05 11:36	JTR	6010B
Cadmium - TCLP	< 0.005	mg/L	0.005	1	12/28/05 11:36	JTR	6010B
Chromium - TCLP	< 0.010	mg/L	0.010	1	12/28/05 11:36	JTR	6010B
<b>Copper - TCLP</b>	<b>0.056</b>	<b>mg/L</b>	<b>0.025</b>	<b>1</b>	<b>12/28/05 11:36</b>	<b>JTR</b>	<b>6010B</b>
Nickel - TCLP	< 0.025	mg/L	0.025	1	12/28/05 11:36	JTR	6010B
Lead - TCLP	< 0.010	mg/L	0.010	1	12/28/05 11:36	JTR	6010B
Antimony - TCLP	< 0.025	mg/L	0.025	1	12/28/05 11:36	JTR	6010B
Selenium - TCLP	< 0.050	mg/L	0.050	1	12/28/05 11:36	JTR	6010B
Thallium - TCLP	< 0.020	mg/L	0.020	1	12/28/05 11:36	JTR	6010B
Zinc - TCLP	<b>0.454</b>	<b>mg/L</b>	<b>0.025</b>	<b>1</b>	<b>12/28/05 11:36</b>	<b>JTR</b>	<b>6010B</b>

### Mercury

Prep Method 7470A

Prep Batch 8140

Date/Time Prepped 12/23/05 08:56

Analytical Batch 12308

Compound	Result	Units	ML	DF	Date/Time Analyzed	By	Analytical Method
Mercury - TCLP	< 0.0010	mg/L	0.0010	1	12/23/05 10:57	KS	7470A

#### Qualifiers/ Definitions

- \* Surrogate Recovery outside accepted limits
- B Analyte detected in the associated Method Blank
- E Value exceeds method calibration range
- J Estimated Value Analyte below reported detection limit
- MDL Method Detection Limit (unadjusted)
- MRL Method Reporting Limit

- \* I Recoveries affected by interferences or high background.
- DF Dilution Factor
- H Prepped / Analyzed out of holding time.
- M Minimum value.
- ML Method Quantitation Limit
- SQL Sample Quantitation Limit (adjusted MDL)





# ENVIRONMENTAL TESTING & CONSULTING, INC.

2790 Whitten Road Memphis, TN 38133 (901)213-2400 FAX (901)213-7440  
www.etcmemphis.com

*All Laboratory Measurements Pertaining to*

**West Memphis Utility**  
P. O. Box 1868  
West Memphis, AR 72301

Project **Industries**  
Description

Lab Order Number **0512638**

Received **12/19/05**

Lab ID **0512638-012A**

Matrix **Sludge**

Field ID **Sludge WWTP**

Sampled **12/19/05**

## PCB's

Prep Method	3550B	Prep Batch	8112	Date/Time Prepped	12/21/05 15:18	Analytical Batch	12245		
Compound	Result	Units	ML	DF	Date/Time Analyzed	By	Analytical Method		
Aroclor 1016	< 3,890	µg/Kg-dry	3,890	1	12/21/05 17:48	DPC	8082		
Aroclor 1221	< 3,890	µg/Kg-dry	3,890	1	12/21/05 17:48	DPC	8082		
Aroclor 1232	< 3,890	µg/Kg-dry	3,890	1	12/21/05 17:48	DPC	8082		
Aroclor 1242	< 3,890	µg/Kg-dry	3,890	1	12/21/05 17:48	DPC	8082		
Aroclor 1248	< 3,890	µg/Kg-dry	3,890	1	12/21/05 17:48	DPC	8082		
Aroclor 1254	< 3,890	µg/Kg-dry	3,890	1	12/21/05 17:48	DPC	8082		
Aroclor 1260	< 3,890	µg/Kg-dry	3,890	1	12/21/05 17:48	DPC	8082		
Surrogate: Decachlorobiphenyl			71 %		Limits: 17-141				
Surrogate: Tetrachloro-m-xylene			55 %		Limits: 20-122				

### Qualifiers/ Definitions

\* Surrogate Recovery outside accepted limits  
 B Analyte detected in the associated Method Blank  
 E Value exceeds method calibration range  
 J Estimated Value Analyte below reported detection limit  
 MDL Method Detection Limit (unadjusted)  
 MRL Method Reporting Limit

\* I Recoveries affected by interferences or high background.  
 DF Dilution Factor  
 H Prepped / Analyzed out of holding time.  
 M Minimum value.  
 MQL Method Quantitation Limit  
 SQL Sample Quantitation Limit (adjusted MDL)



ENVIRONMENTAL TESTING & CONSULTING, Inc.

10000 Highway 100, Suite 100  
West Memphis, AR 72391  
Phone: (901) 948-1100  
Fax: (901) 948-1101  
www.etcinc.com

March 08, 2006

Ms. Denise Bosnick  
West Memphis Utility  
P. O. Box 1868  
West Memphis, AR 72301

Ref: Analytical Testing  
Lab Order Number 0602754  
Project Description WWTP

Environmental Testing and Consulting, Inc. received 14 sample(s) on 2/22/2006 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and for 40 CFR part 136.

The EPA requires that analysis for pH, dissolved oxygen and total residual chlorine be analyzed in the field. Analyses and results reported which do not indicate "Field" for these parameters were analyzed outside the holding time as specified in Table II of 40 CFR Part 136.3.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA, NELAP, and USACE.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randall H. Thomas  
Laboratory Project Manager

Attachment  
WESTMEM

*Certifications*

Alabama	#40750	Louisiana	#04015	Florida	E87943
Arkansas	#88-0650	Mississippi		Pennsylvania	68-3195
Illinois	#200015	Oklahoma	#9311	USDA	#S-46279
Kentucky	#90047	Tennessee	#02027	EPA	#TN00012
Kentucky UST	#41	Virginia	#00106	NELAP	#04015



U.S. Army Corps of Engineer





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"Laboratory Management Partner"

West Memphis Utility  
P. O. Box 1868

Project **WWTP**  
Description

West Memphis, AR 72301

Lab Order Number **0602754**

Lab ID **0602754-014**

Received **02/22/06**

Field ID **Sludge-WWTP**

Matrix **Sludge**

Sampled **02/22/06 8:30**

Test	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method
Cyanide	< 1.00	mg/Kg	1.00	1	03/07/06 8:15	GD	9010B
Paint Filter	Pass			1	03/03/06 10:40	DS	9095A
Phenolics, Total Recoverable	< 1.25	mg/Kg	1.25	1	02/27/06 13:42	RKT	9065
Percent Moisture	87.8	wt%		1	02/27/06 0:00	MJ	160.3

**Qualifiers/  
Definitions**

- Surrogate Recovery outside accepted limits.
- \* I Recoveries affected by interferences or high background.
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- E Value exceeds method calibration range
- H Prepped / Analyzed out of holding time.
- J Estimated Value Analyte below reported detection limit
- M Minimum value.
- MDL Method Detection Limit (unadjusted)
- MQL Method Quantitation Limit
- MRL Method Reporting Limit
- SQL Sample Quantitation Limit (adjusted MDL)



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West Memphis Utility  
P. O. Box 1868

Project **WWTP**  
Description

West Memphis, AR 72301

Lab Order Number **0602754**  
Lab ID **0602754-014A**  
Field ID **Sludge-WWTP**

Received **02/22/06**  
Matrix **Sludge**  
Sampled **02/22/06**

**1311 TCLP Characterization** Prep Batch 8956 Date/Time 02/22/06 14:40 Leachate

### ICP Metals

Prep Method	3005A	Prep Batch	8983	Date/Time Prepped	02/24/06 10:17	Analytical Batch	13817
Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method
Silver - TCLP	< 0.005	mg/L	0.005	1	02/24/06 22:50	JTR	6010B
Arsenic - TCLP	< 0.025	mg/L	0.025	1	02/24/06 22:50	JTR	6010B
Barium - TCLP	<b>0.125</b>	mg/L	<b>0.025</b>	<b>1</b>	<b>02/24/06 22:50</b>	<b>JTR</b>	<b>6010B</b>
Beryllium - TCLP	< 0.010	mg/L	0.010	1	02/24/06 22:50	JTR	6010B
Cadmium - TCLP	< 0.005	mg/L	0.005	1	02/24/06 22:50	JTR	6010B
Chromium - TCLP	< 0.010	mg/L	0.010	1	02/24/06 22:50	JTR	6010B
Copper - TCLP	< 0.025	mg/L	0.025	1	02/24/06 22:50	JTR	6010B
Nickel - TCLP	< 0.025	mg/L	0.025	1	02/24/06 22:50	JTR	6010B
Lead - TCLP	< 0.010	mg/L	0.010	1	02/24/06 22:50	JTR	6010B
Antimony - TCLP	< 0.025	mg/L	0.025	1	02/24/06 22:50	JTR	6010B
Selenium - TCLP	< 0.050	mg/L	0.050	1	02/24/06 22:50	JTR	6010B
Thallium - TCLP	< 0.020	mg/L	0.020	1	02/24/06 22:50	JTR	6010B
Zinc - TCLP	<b>0.351</b>	mg/L	<b>0.025</b>	<b>1</b>	<b>02/24/06 22:50</b>	<b>JTR</b>	<b>6010B</b>

### Mercury

Prep Method	7470A	Prep Batch	8975	Date/Time Prepped	02/24/06 8:41	Analytical Batch	13822
Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method
Mercury - TCLP	< 0.0010	mg/L	0.0010	1	02/24/06 11:28	KS	7470A

- |                    |  |  |
|--------------------|--|--|
| <b>Qualifiers/</b> | * Surrogate Recovery outside accepted limits.            | * I Recoveries affected by interferences or high background. |
| <b>Definitions</b> | B Analyte detected in the associated Method Blank        | DF Dilution Factor   |
|                    | E Value exceeds method calibration range                 | H Prepped / Analyzed out of holding time.                    |
|                    | J Estimated Value Analyte below reported detection limit | M Minimum value.   |
|                    | MDL Method Decision Limit (unadjusted)                   | MQL Method Quantitation Limit                                |
|                    | MRL Method Reporting Limit                               | SQL Sample Quantitation Limit (adjusted MDL)                 |



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"A Laboratory Management Partner"

**West Memphis Utility**  
P. O. Box 1868  
West Memphis, AR 72301

Project **WWTP**  
Description

Lab Order Number **0602754**

Received **02/22/06**

Lab ID **0602754-014B**

Matrix **Sludge**

Field ID **Sludge-WWTP**

Sampled **02/22/06**

## PCB's

Prep Method	3550B	Prep Batch	9055	Date/Time Prepped	03/01/06 9:30	Analytical Batch	14074		
Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method		
Aroclor 1016	< 286	µg/Kg-dry	286	1	03/04/06 5:33	DPC	8082		
Aroclor 1221	< 286	µg/Kg-dry	286	1	03/04/06 5:33	DPC	8082		
Aroclor 1232	< 286	µg/Kg-dry	286	1	03/04/06 5:33	DPC	8082		
Aroclor 1242	< 286	µg/Kg-dry	286	1	03/04/06 5:33	DPC	8082		
Aroclor 1248	< 286	µg/Kg-dry	286	1	03/04/06 5:33	DPC	8082		
Aroclor 1254	< 286	µg/Kg-dry	286	1	03/04/06 5:33	DPC	8082		
Aroclor 1260	< 286	µg/Kg-dry	286	1	03/04/06 5:33	DPC	8082		
Surrogate:	Decachlorobiphenyl		43 %		Limits: 17-141				
Surrogate:	Tetrachloro-m-xylene		42 %		Limits: 20-122				

### Qualifiers/Definitions

- \* Surrogate Recovery outside accepted limits.
- \* I Recoveries affected by interferences or high background.
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- E Value exceeds method calibration range
- H Prepped / Analyzed out of holding time.
- J Estimated Value Analyte below reported detection limit
- M Minimum value.
- MDL Method Detection Limit (unadjusted)
- MQL Method Quantitation Limit
- MRL Method Reporting Limit
- SQL Sample Quantitation Limit (adjusted MDL)



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"Laboratory Management Partner"

**West Memphis Utility**  
P. O. Box 1868  
West Memphis, AR 72301

Project **WWTP**  
Description

Lab Order Number **0602754**  
Lab ID **0602754-012A**  
Field ID **Effluent-WWTP**

Received **02/22/06**  
Matrix **Aqueous**  
Sampled **02/21/06**

## GCMS Volatiles

Prep Method	624	Prep Batch	9046	Date/Time Prepped	02/28/06 8:36	Analytical Batch	13922
Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method
Acrolein	< 20.0	µg/L	20.0	1	02/28/06 18:38	MK	624
Acrylonitrile	< 20.0	µg/L	20.0	1	02/28/06 18:38	MK	624
Benzene	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
Bromodichloromethane	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
Bromoform	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
Bromomethane	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
Carbon tetrachloride	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
Chlorobenzene	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
Chlorodibromomethane	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
Chloroethane	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
2-Chloroethyl vinyl ether	< 5.00	µg/L	5.00	1	02/28/06 18:38	MK	624
<b>Chloroform</b>	<b>1.27</b>	<b>µg/L</b>	<b>1.00</b>	<b>1</b>	<b>02/28/06 18:38</b>	<b>MK</b>	<b>624</b>
Chloromethane	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
1,2-Dichlorobenzene	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
1,3-Dichlorobenzene	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
1,4-Dichlorobenzene	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
1,1-Dichloroethane	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
1,2-Dichloroethane	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
1,1-Dichloroethene	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
trans-1,2-Dichloroethene	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
1,2-Dichloropropane	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
cis-1,3-Dichloropropene	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
trans-1,3-Dichloropropene	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
Ethylbenzene	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
Methylene chloride	< 10.0	µg/L	10.0	1	02/28/06 18:38	MK	624
Styrene	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
1,1,1,2-Tetrachloroethane	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
1,1,2,2-Tetrachloroethane	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624
Tetrachloroethene	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624

- |                    |  |  |
|--------------------|--|--|
| <b>Qualifiers/</b> | * Surrogate Recovery outside accepted limits.            | * I Recoveries affected by interferences or high background. |
| <b>Definitions</b> | B Analyte detected in the associated Method Blank        | DF Dilution Factor   |
|                    | E Value exceeds method calibration range                 | H Prepped / Analyzed out of holding time.                    |
|                    | J Estimated Value Analyte below reported detection limit | M Minimum value.   |
|                    | MDL Method Detection Limit (unadjusted)                  | MQL Method Quantitation Limit                                |
|                    | MRL Method Reporting Limit                               | SQL Sample Quantitation Limit (adjusted MDL)                 |



# ENVIRONMENTAL TESTING & CONSULTING, INC.

2796 Webster Road Memphis, TN 38133 (901)213-2400 FAX (901)213-2440  
www.etcmemphis.com

"Laboratory Management Partner"

## West Memphis Utility

P. O. Box 1868  
West Memphis, AR 72301

Project **WWTP**  
Description

Lab Order Number **0602754**

Received **02/22/06**

Lab ID **0602754-012A**

Matrix **Aqueous**

Field ID **Effluent-WWTP**

Sampled **02/21/06**

### GCMS Volatiles

Prep Method	624	Prep Batch	9046	Date/Time Prepped	02/28/06 8:36	Analytical Batch	13922		
Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method		
Toluene	< 5.00	µg/L	5.00	1	02/28/06 18:38	MK	624		
1,1,1-Trichloroethane	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624		
1,1,2-Trichloroethane	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624		
Trichloroethene	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624		
Trichlorofluoromethane	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624		
Vinyl chloride	< 1.00	µg/L	1.00	1	02/28/06 18:38	MK	624		
Surrogate:	<b>Dibromofluoromethane</b>		<b>123 % *</b>		<b>Limits: 84-115</b>				
Surrogate:	Toluene-d8		106 %		Limits: 69-133				
Surrogate:	4-Bromofluorobenzene		117 %		Limits: 80-120				
Surrogate:	1,2-Dichloroethane-d4		123 %		Limits: 58-131				

<b>Qualifiers/</b>	* Surrogate Recovery outside accepted limits.	* I Recoveries affected by interferences or high background.
<b>Definitions</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor
	E Value exceeds method calibration range	H Prepped / Analyzed out of holding time.
	J Estimated Value Analyte below reported detection limit	M Minimum value.
	MDL Method Decision Limit (unadjusted)	MQL Method Quantitation Limit
	MRL Method Reporting Limit	SQL Sample Quantitation Limit (adjusted MDL)



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"A Laboratory Management Partner"

**West Memphis Utility**  
P. O. Box 1868  
West Memphis, AR 72301

Project **WWTP**  
Description

Lab Order Number **0602754**  
Lab ID **0602754-013A**  
Field ID **Effluent-WWTP 2/21-22/06**

Received **02/22/06**  
Matrix **Aqueous**  
Sampled **02/22/06**

## GC/MS Semi-Volatiles

Prep Method	625	Prep Batch	9010	Date/Time Prepped	02/27/06 15:51	Analytical Batch	13985
Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method
Acenaphthene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
Acenaphthylene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
Anthracene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
Benzidine	< 20.6	µg/L	20.6	1	03/01/06 13:19	EDS	625
Benzo(a)anthracene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
Benzo(b)fluoranthene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
Benzo(k)fluoranthene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
Benzo(g,h,i)perylene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
Benzo(a)pyrene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
Bis(2-chloroethyl)ether	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Bis(2-chloroethoxy)methane	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Bis(2-chloroisopropyl)ether	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Bis(2-ethylhexyl)phthalate	< 10.3	µg/L	10.3	1	03/01/06 13:19	EDS	625
4-Bromophenyl phenyl ether	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Butyl benzyl phthalate	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
4-Chloro-3-methylphenol	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
2-Chloronaphthalene	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
2-Chlorophenol	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
4-Chlorophenyl phenyl ether	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Chrysene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
Dibenz(a,h)anthracene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
1,2-Dichlorobenzene	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
1,3-Dichlorobenzene	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
1,4-Dichlorobenzene	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Di-n-butyl phthalate	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
3,3'-Dichlorobenzidine	< 10.3	µg/L	10.3	1	03/01/06 13:19	EDS	625
2,4-Dichlorophenol	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Diethyl phthalate	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
2,4-Dimethylphenol	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625

<b>Qualifiers/</b>	* Surrogate Recovery outside accepted limits.	* I Recoveries affected by interferences or high background.
<b>Definitions</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor
	E Value exceeds method calibration range	H Prepped / Analyzed out of holding time.
	J Estimated Value Analyte below reported detection limit	M Minimum value.
	MDL Method Detection Limit (unadjusted)	MQL Method Quantitation Limit
	MRL Method Reporting Limit	SQL Sample Quantitation Limit (adjusted MDL)

03/08/06

WESTMEM





# ENVIRONMENTAL TESTING & CONSULTING, INC.

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"Laboratory Management Partner"

## West Memphis Utility

P. O. Box 1868  
West Memphis, AR 72301

Project **WWTP**

Description

Lab Order Number **0602754**

Received **02/22/06**

Lab ID **0602754-013A**

Matrix **Aqueous**

Field ID **Effluent-WWTP 2/21-22/06**

Sampled **02/22/06**

### GC/MS Semi-Volatiles

Prep Method	625	Prep Batch	9010	Date/Time Prepped	02/27/06 15:51	Analytical Batch	13985
Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method
Dimethyl phthalate	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
4,6-Dinitro-2-methylphenol	< 10.3	µg/L	10.3	1	03/01/06 13:19	EDS	625
2,4-Dinitrophenol	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
2,4-Dinitrotoluene	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
2,6-Dinitrotoluene	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Di-n-octyl phthalate	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
1,2-Diphenylhydrazine/Azobenzene	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Fluoranthene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
Fluorene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
Hexachlorobenzene	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Hexachlorobutadiene	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Hexachlorocyclopentadiene	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Hexachloroethane	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Indeno(1,2,3-cd)pyrene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
Isophorone	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Naphthalene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
Nitrobenzene	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
2-Nitrophenol	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
4-Nitrophenol	< 20.6	µg/L	20.6	1	03/01/06 13:19	EDS	625
N-Nitrosodimethylamine	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
N-Nitrosodiphenylamine	< 10.3	µg/L	10.3	1	03/01/06 13:19	EDS	625
N-Nitrosodi-n-propylamine	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Pentachlorophenol	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Phenanthrene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
Phenol	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Pyrene	< 2.06	µg/L	2.06	1	03/01/06 13:19	EDS	625
1,2,4-Trichlorobenzene	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
2,4,6-Trichlorophenol	< 5.15	µg/L	5.15	1	03/01/06 13:19	EDS	625
Surrogate: Nitrobenzene-d5			62 %	Limits: 29-110			
Surrogate: 2-Fluorobiphenyl			54 %	Limits: 38-107			

<b>Qualifiers/</b>	* Surrogate Recovery outside accepted limits.	* I Recoveries affected by interferences or high background.
<b>Definitions</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor
	E Value exceeds method calibration range	H Prepped / Analyzed out of holding time.
	J Estimated Value Analyte below reported detection limit	M Minimum value.
	MDL Method Detection Limit (unadjusted)	MQL Method Quantitation Limit
	MRL Method Reporting Limit	SQL Sample Quantitation Limit (adjusted MDL)

03/08/06

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## West Memphis Utility

P. O. Box 1868  
West Memphis, AR 72301

Project **WWTP**  
Description

Lab Order Number **0602754**

Received **02/22/06**

Lab ID **0602754-013A**

Matrix **Aqueous**

Field ID **Effluent-WWTP 2/21-22/06**

Sampled **02/22/06**

### Pesticides

Prep Method	608	Prep Batch	9027	Date/Time Prepped	02/27/06 15:25	Analytical Batch	13984		
Compound	Result	Units	ML	DF	Date/Time Analyzed	By	Analytical Method		
Aldrin	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
alpha-BHC	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
beta-BHC	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
delta-BHC	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
gamma-BHC	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
Chlordane	< 0.211	µg/L	0.211	10	03/01/06 0:10	DPC	608		
4,4'-DDD	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
4,4'-DDE	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
4,4'-DDT	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
Dieldrin	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
Endosulfan I	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
Endosulfan II	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
Endosulfan sulfate	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
Endrin	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
Endrin aldehyde	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
Endrin Ketone	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
Heptachlor	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
Heptachlor epoxide	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
Methoxychlor	< 0.0421	µg/L	0.0421	10	03/01/06 0:10	DPC	608		
Toxaphene	< 0.316	µg/L	0.316	10	03/01/06 0:10	DPC	608		
Surrogate: Decachlorobiphenyl			80 %	Limits: 36-116					
Surrogate: Tetrachloro-m-xylene			32 %	Limits: 25-123					

#### Qualifiers/ Definitions

- \* Surrogate Recovery outside accepted limits.
- \* I Recoveries affected by interferences or high background.
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- E Value exceeds method calibration range
- H Prepped / Analyzed out of holding time.
- J Estimated Value Analyte below reported detection limit
- M Minimum value.
- MDL Method Detection Limit (unadjusted)
- ML Method Quantitation Limit
- MRL Method Reporting Limit
- SQL Sample Quantitation Limit (adjusted MDL)

03/08/06

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## West Memphis Utility

P. O. Box 1868  
West Memphis, AR 72301

Project **WWTP**  
Description

Lab Order Number **0602754**

Received **02/22/06**

Lab ID **0602754-013A**

Matrix **Aqueous**

Field ID **Effluent-WWTP 2/21-22/06**

Sampled **02/22/06**

### PCB's

Prep Method	608	Prep Batch	9026	Date/Time Prepped	02/27/06 15:25	Analytical Batch	13957		
Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method		
Aroclor 1016	< 0.526	µg/L	0.526	1	02/28/06 18:44	DPC	608		
Aroclor 1221	< 0.526	µg/L	0.526	1	02/28/06 18:44	DPC	608		
Aroclor 1232	< 0.526	µg/L	0.526	1	02/28/06 18:44	DPC	608		
Aroclor 1242	< 0.526	µg/L	0.526	1	02/28/06 18:44	DPC	608		
Aroclor 1248	< 0.526	µg/L	0.526	1	02/28/06 18:44	DPC	608		
Aroclor 1254	< 0.526	µg/L	0.526	1	02/28/06 18:44	DPC	608		
Aroclor 1260	< 0.526	µg/L	0.526	1	02/28/06 18:44	DPC	608		
Surrogate:	Decachlorobiphenyl		63 %	Limits: 36-116					
Surrogate:	Tetrachloro-m-xylene		45 %	Limits: 25-123					

#### Qualifiers/ Definitions

- \* Surrogate Recovery outside accepted limits.
- \*1 Recoveries affected by interferences or high background.
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- E Value exceeds method calibration range
- H Prepped / Analyzed out of holding time.
- J Estimated Value Analyte below reported detection limit
- M Minimum value.
- MDL Method Detection Limit (unadjusted)
- SQL Method Quantitation Limit
- MRL Method Reporting Limit
- SQL Sample Quantitation Limit (adjusted MDL)

03/08/06

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West Memphis Utility  
P. O. Box 1868

Project **WWTP**  
Description

West Memphis, AR 72301

Lab Order Number **0602754**

Lab ID **0602754-010**

Received **02/22/06**

Field ID **Influent-WWTP**

Matrix **Aqueous**

Sampled **02/21/06 8:45**

Test	Result	Units	SQL	DF	Date/Time Analyzed	By	Analytical Method
Cyanide, Total	< 0.010	mg/L	0.010	1	02/22/06 12:30	GD	335.2 (MIDI)
HEM (Oil & Grease)	<b>73</b>	mg/L	<b>5</b>	<b>1</b>	<b>02/27/06 9:00</b>	<b>MB</b>	<b>1664</b>
Phenolics, Total Recoverable	< 0.005	mg/L	0.005	1	02/28/06 8:14	RKT	420.1

Lab ID **0602754-011**

Received **02/22/06**

Field ID **Influent WWTP 2/21-22/06**

Matrix **Aqueous**

Sampled **02/22/06 8:45**

Test	Result	Units	SQL	DF	Date/Time Analyzed	By	Analytical Method
Silver	< 0.002	mg/L	0.002	1	02/24/06 2:32	JTR	200.7
Arsenic	< 0.010	mg/L	0.010	1	02/24/06 2:32	JTR	200.7
Beryllium	< 0.005	mg/L	0.005	1	02/24/06 2:32	JTR	200.7
Cadmium	< 0.001	mg/L	0.001	1	02/24/06 2:32	JTR	200.7
Chromium	< 0.005	mg/L	0.005	1	02/24/06 2:32	JTR	200.7
Copper	<b>0.074</b>	mg/L	<b>0.005</b>	<b>1</b>	<b>02/24/06 2:32</b>	<b>JTR</b>	<b>200.7</b>
Nickel	< 0.005	mg/L	0.005	1	02/24/06 2:32	JTR	200.7
Lead	<b>0.002</b>	mg/L	<b>0.002</b>	<b>1</b>	<b>02/24/06 2:32</b>	<b>JTR</b>	<b>200.7</b>
Antimony	< 0.010	mg/L	0.010	1	02/24/06 2:32	JTR	200.7
Selenium	< 0.005	mg/L	0.005	1	02/24/06 2:32	JTR	200.7
Thallium	< 0.010	mg/L	0.010	1	02/24/06 14:24	JTR	200.7
Zinc	<b>0.111</b>	mg/L	<b>0.010</b>	<b>1</b>	<b>02/24/06 2:32</b>	<b>JTR</b>	<b>200.7</b>
Mercury	< 0.0002	mg/L	0.0002	1	02/24/06 11:28	KS	245.1
Biochemical Oxygen Demand	<b>153</b>	mg/L	<b>5</b>	<b>1</b>	<b>02/22/06 15:25</b>	<b>AO</b>	<b>405.1</b>
Chemical Oxygen Demand	<b>601</b>	mg/L	<b>15</b>	<b>1</b>	<b>02/27/06 10:21</b>	<b>RKT</b>	<b>5220 C/D</b>
pH	<b>7.0</b>	SU		<b>1</b>	<b>02/22/06 14:20</b>	<b>KMN</b>	<b>150.1</b>
Total Suspended Solids	<b>176</b>	mg/L	<b>2</b>	<b>1</b>	<b>02/24/06 9:40</b>	<b>NG</b>	<b>160.2</b>

**Qualifiers/  
Definitions**

- \* Surrogate Recovery outside accepted limits.
- B Analyte detected in the associated Method Blank
- E Value exceeds method calibration range
- J Estimated Value Analyte below reported detection limit
- MDL Method Detection Limit (unadjusted)
- MRL Method Reporting Limit

- \* I Recoveries affected by interferences or high background.
- DF Dilution Factor
- H Prepped / Analyzed out of holding time.
- M Minimum value.
- SQL Method Quantitation Limit
- SQL Sample Quantitation Limit (adjusted MDL)



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West Memphis Utility  
P. O. Box 1868

Project **WWTP**  
Description

West Memphis, AR 72301

Lab Order Number **0602754**

Lab ID **0602754-012**

Received **02/22/06**

Field ID **Effluent-WWTP**

Matrix **Aqueous**

Sampled **02/21/06 8:35**

Test	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method
Cyanide, Total	< 0.010	mg/L	0.010	1	02/23/06 10:00	GD	335.2 (MIDI)
HEM (Oil & Grease)	<b>18</b>	mg/L	<b>5</b>	<b>1</b>	<b>02/27/06 9:00</b>	<b>MB</b>	<b>1664</b>
Phenolics, Total Recoverable	< 0.005	mg/L	0.005	1	02/28/06 8:14	RKT	420.1

Lab ID **0602754-013**

Received **02/22/06**

Field ID **Effluent-WWTP 2/21-22/06**

Matrix **Aqueous**

Sampled **02/22/06 8:35**

Test	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method
Silver	< 0.002	mg/L	0.002	1	02/24/06 2:38	JTR	200.7
Arsenic	< 0.010	mg/L	0.010	1	02/24/06 2:38	JTR	200.7
Beryllium	< 0.005	mg/L	0.005	1	02/24/06 2:38	JTR	200.7
Cadmium	< 0.001	mg/L	0.001	1	02/24/06 2:38	JTR	200.7
Chromium	< 0.005	mg/L	0.005	1	02/24/06 2:38	JTR	200.7
Copper	<b>0.038</b>	mg/L	<b>0.005</b>	<b>1</b>	<b>02/24/06 2:38</b>	<b>JTR</b>	<b>200.7</b>
Nickel	<b>0.006</b>	mg/L	<b>0.005</b>	<b>1</b>	<b>02/24/06 2:38</b>	<b>JTR</b>	<b>200.7</b>
Lead	< 0.002	mg/L	0.002	1	02/24/06 2:38	JTR	200.7
Antimony	< 0.010	mg/L	0.010	1	02/24/06 2:38	JTR	200.7
Selenium	< 0.005	mg/L	0.005	1	02/24/06 2:38	JTR	200.7
Thallium	< 0.010	mg/L	0.010	1	02/24/06 14:31	JTR	200.7
Zinc	<b>0.068</b>	mg/L	<b>0.010</b>	<b>1</b>	<b>02/24/06 2:38</b>	<b>JTR</b>	<b>200.7</b>
Mercury	< 0.0002	mg/L	0.0002	1	02/24/06 11:28	KS	245.1
Biochemical Oxygen Demand	<b>58</b>	mg/L	<b>5</b>	<b>1</b>	<b>02/22/06 15:25</b>	<b>AO</b>	<b>405.1</b>
Chemical Oxygen Demand	<b>134</b>	mg/L	<b>15</b>	<b>1</b>	<b>02/27/06 10:21</b>	<b>RKT</b>	<b>5220 C/D</b>
pH	<b>7.3</b>	SU		<b>1</b>	<b>02/22/06 14:20</b>	<b>KMN</b>	<b>150.1</b>
Total Suspended Solids	<b>180</b>	mg/L	<b>2</b>	<b>1</b>	<b>02/24/06 9:40</b>	<b>NG</b>	<b>160.2</b>

**Qualifiers/  
Definitions**

\* Surrogate Recovery outside accepted limits.  
 B Analyte detected in the associated Method Blank  
 E Value exceeds method calibration range  
 J Estimated Value Analyte below reported detection limit  
 MDL Method Detection Limit (unadjusted)  
 MRL Method Reporting Limit

\* I Recoveries affected by interferences or high background.  
 DF Dilution Factor  
 H Prepped / Analyzed out of holding time.  
 M Minimum value.  
 MQL Method Quantitation Limit  
 SQL Sample Quantitation Limit (adjusted MDL)



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## West Memphis Utility

P. O. Box 1868

West Memphis, AR 72301

Project **WWTP**  
Description

Lab Order Number **0602754**

Received **02/22/06**

Lab ID **0602754-010A**

Matrix **Aqueous**

Field ID **Influent-WWTP**

Sampled **02/21/06**

### GCMS Volatiles

Prep Method	624	Prep Batch	9046	Date/Time Prepped	02/28/06 8:36	Analytical Batch	13922
Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method
Acrolein	< 20.0	µg/L	20.0	1	02/28/06 18:06	MK	624
Acrylonitrile	< 20.0	µg/L	20.0	1	02/28/06 18:06	MK	624
Benzene	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
Bromodichloromethane	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
Bromoform	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
Bromomethane	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
Carbon tetrachloride	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
Chlorobenzene	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
Chlorodibromomethane	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
Chloroethane	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
2-Chloroethyl vinyl ether	< 5.00	µg/L	5.00	1	02/28/06 18:06	MK	624
<b>Chloroform</b>	<b>1.62</b>	<b>µg/L</b>	<b>1.00</b>	<b>1</b>	<b>02/28/06 18:06</b>	<b>MK</b>	<b>624</b>
Chloromethane	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
1,2-Dichlorobenzene	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
1,3-Dichlorobenzene	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
<b>1,4-Dichlorobenzene</b>	<b>4.20</b>	<b>µg/L</b>	<b>1.00</b>	<b>1</b>	<b>02/28/06 18:06</b>	<b>MK</b>	<b>624</b>
1,1-Dichloroethane	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
1,2-Dichloroethane	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
1,1-Dichloroethene	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
trans-1,2-Dichloroethene	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
1,2-Dichloropropane	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
cis-1,3-Dichloropropene	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
trans-1,3-Dichloropropene	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
<b>Ethylbenzene</b>	<b>3.41</b>	<b>µg/L</b>	<b>1.00</b>	<b>1</b>	<b>02/28/06 18:06</b>	<b>MK</b>	<b>624</b>
<b>Methylene chloride</b>	<b>11.6</b>	<b>µg/L</b>	<b>10.0</b>	<b>1</b>	<b>02/28/06 18:06</b>	<b>MK</b>	<b>624</b>
<b>Styrene</b>	<b>23.1</b>	<b>µg/L</b>	<b>1.00</b>	<b>1</b>	<b>02/28/06 18:06</b>	<b>MK</b>	<b>624</b>
1,1,1,2-Tetrachloroethane	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
1,1,2,2-Tetrachloroethane	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624
Tetrachloroethene	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624

#### Qualifiers/ Definitions

- \* Surrogate Recovery outside accepted limits.
- B Analyte detected in the associated Method Blank
- E Value exceeds method calibration range
- J Estimated Value Analyte below reported detection limit
- MDL Method Detection Limit (unadjusted)
- MRL Method Reporting Limit

- \* I Recoveries affected by interferences or high background.
- DF Dilution Factor
- H Prepped / Analyzed out of holding time.
- M Minimum value.
- MQL Method Quantitation Limit
- SQL Sample Quantitation Limit (adjusted MDL)

03/08/06

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## West Memphis Utility

P. O. Box 1868  
West Memphis, AR 72301

Project **WWTP**  
Description

Lab Order Number **0602754**

Lab ID **0602754-010A**

Field ID **Influent-WWTP**

Received **02/22/06**

Matrix **Aqueous**

Sampled **02/21/06**

### GCMS Volatiles

Prep Method	624	Prep Batch	9046	Date/Time Prepped	02/28/06 8:36	Analytical Batch	13922		
Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method		
Toluene	5.11	µg/L	5.00	1	02/28/06 18:06	MK	624		
1,1,1-Trichloroethane	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624		
1,1,2-Trichloroethane	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624		
Trichloroethene	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624		
Trichlorofluoromethane	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624		
Vinyl chloride	< 1.00	µg/L	1.00	1	02/28/06 18:06	MK	624		
Surrogate: Dibromofluoromethane			123 % *		Limits: 84-115				
Surrogate: Toluene-d8			101 %		Limits: 69-133				
Surrogate: 4-Bromofluorobenzene			118 %		Limits: 80-120				
Surrogate: 1,2-Dichloroethane-d4			114 %		Limits: 58-131				

#### Qualifiers/ Definitions

- \* Surrogate Recovery outside accepted limits.
- \* J Recoveries affected by interferences or high background.
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- E Value exceeds method calibration range
- H Prepped / Analyzed out of holding time.
- J Estimated Value Analyte below reported detection limit
- M Minimum value.
- MDL Method Decision Limit (unadjusted)
- MQL Method Quantitation Limit
- MRL Method Reporting Limit
- SQL Sample Quantitation Limit (adjusted MDL)

03/08/06

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**West Memphis Utility**  
P. O. Box 1868  
West Memphis, AR 72301

Project **WWTP**  
Description

Lab Order Number **0602754**  
Lab ID **0602754-011A**  
Field ID **Influent WWTP 2/21-22/06**

Received **02/22/06**  
Matrix **Aqueous**  
Sampled **02/22/06**

## GC/MS Semi-Volatiles

Prep Method 625 Prep Batch 9010 Date/Time Prepped 02/27/06 15:51 Analytical Batch 13985

Compound	Result	Units	MQL	DF	Date/Time		Analytical	
					Analyzed	By	Method	
Acenaphthene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625	
Acenaphthylene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625	
Anthracene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625	
Benidine	< 20.4	µg/L	20.4	1	03/01/06 12:42	EDS	625	
Benzo(a)anthracene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625	
Benzo(b)fluoranthene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625	
Benzo(k)fluoranthene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625	
Benzo(g,h,i)perylene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625	
Benzo(a)pyrene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625	
Bis(2-chloroethyl)ether	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625	
Bis(2-chloroethoxy)methane	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625	
Bis(2-chloroisopropyl)ether	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625	
<b>Bis(2-ethylhexyl)phthalate</b>	<b>46.8</b>	<b>µg/L</b>	<b>10.2</b>	<b>1</b>	<b>03/01/06 12:42</b>	<b>EDS</b>	<b>625</b>	
4-Bromophenyl phenyl ether	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625	
Butyl benzyl phthalate	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625	
4-Chloro-3-methylphenol	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625	
2-Chloronaphthalene	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625	
2-Chlorophenol	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625	
4-Chlorophenyl phenyl ether	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625	
Chrysene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625	
Dibenz(a,h)anthracene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625	
1,2-Dichlorobenzene	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625	
1,3-Dichlorobenzene	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625	
1,4-Dichlorobenzene	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625	
<b>Di-n-butyl phthalate</b>	<b>9.88</b>	<b>µg/L</b>	<b>5.10</b>	<b>1</b>	<b>03/01/06 12:42</b>	<b>EDS</b>	<b>625</b>	
3,3'-Dichlorobenzidine	< 10.2	µg/L	10.2	1	03/01/06 12:42	EDS	625	
2,4-Dichlorophenol	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625	
<b>Diethyl phthalate</b>	<b>6.57</b>	<b>µg/L</b>	<b>5.10</b>	<b>1</b>	<b>03/01/06 12:42</b>	<b>EDS</b>	<b>625</b>	
2,4-Dimethylphenol	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625	

<b>Qualifiers/</b>	* Surrogate Recovery outside accepted limits.	* I Recoveries affected by interferences or high background.
<b>Definitions</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor
	E Value exceeds method calibration range	H Prepped / Analyzed out of holding time.
	J Estimated Value Analyte below reported detection limit	M Minimum value.
	MDL Method Detection Limit (unadjusted)	MQL Method Quantitation Limit
	MRL Method Reporting Limit	SQL Sample Quantitation Limit (adjusted MDL)





# ENVIRONMENTAL TESTING & CONSULTING, INC.

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www.etc-environment.com

"A Laboratory Management Partner"

## West Memphis Utility

P. O. Box 1868  
West Memphis, AR 72301

Project **WWTP**  
Description

Lab Order Number **0602754**

Lab ID **0602754-011A**

Field ID **Influent WWTP 2/21-22/06**

Received **02/22/06**

Matrix **Aqueous**

Sampled **02/22/06**

### GC/MS Semi-Volatiles

Prep Method	625	Prep Batch	9010	Date/Time Prepped	02/27/06 15:51	Analytical Batch	13985		
Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method		
Dimethyl phthalate	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
4,6-Dinitro-2-methylphenol	< 10.2	µg/L	10.2	1	03/01/06 12:42	EDS	625		
2,4-Dinitrophenol	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
2,4-Dinitrotoluene	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
2,6-Dinitrotoluene	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
Di-n-octyl phthalate	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
1,2-Diphenylhydrazine/Azobenzene	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
Fluoranthene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625		
Fluorene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625		
Hexachlorobenzene	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
Hexachlorobutadiene	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
Hexachlorocyclopentadiene	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
Hexachloroethane	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
Indeno(1,2,3-cd)pyrene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625		
Isophorone	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
<b>Naphthalene</b>	<b>2.70</b>	<b>µg/L</b>	<b>2.04</b>	<b>1</b>	<b>03/01/06 12:42</b>	<b>EDS</b>	<b>625</b>		
Nitrobenzene	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
2-Nitrophenol	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
4-Nitrophenol	< 20.4	µg/L	20.4	1	03/01/06 12:42	EDS	625		
N-Nitrosodimethylamine	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
N-Nitrosodiphenylamine	< 10.2	µg/L	10.2	1	03/01/06 12:42	EDS	625		
N-Nitrosodi-n-propylamine	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
Pentachlorophenol	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
Phenanthrene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625		
<b>Phenol</b>	<b>6.87</b>	<b>µg/L</b>	<b>5.10</b>	<b>1</b>	<b>03/01/06 12:42</b>	<b>EDS</b>	<b>625</b>		
Pyrene	< 2.04	µg/L	2.04	1	03/01/06 12:42	EDS	625		
1,2,4-Trichlorobenzene	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
2,4,6-Trichlorophenol	< 5.10	µg/L	5.10	1	03/01/06 12:42	EDS	625		
Surrogate: Nitrobenzene-d5			67 %	Limits: 29-110					
Surrogate: 2-Fluorobiphenyl			65 %	Limits: 38-107					

#### Qualifiers/ Definitions

- \* Surrogate Recovery outside accepted limits.
- B Analyte detected in the associated Method Blank
- E Value exceeds method calibration range
- J Estimated Value Analyte below reported detection limit
- MDL Method Detection Limit (unadjusted)
- MRL Method Reporting Limit

- \* I Recoveries affected by interferences or high background.
- DF Dilution Factor
- H Prepped / Analyzed out of holding time.
- M Minimum value.
- MQL Method Quantitation Limit
- SQL Sample Quantitation Limit (adjusted MDL)

03/08/06

WESTMEM



# ENVIRONMENTAL TESTING & CONSULTING, INC.

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www.etcmemphis.com

"Laboratory Management Partner"

## West Memphis Utility

P. O. Box 1868  
West Memphis, AR 72301

Project **WWTP**  
Description

Lab Order Number **0602754**

Lab ID **0602754-011A**

Field ID **Influent WWTP 2/21-22/06**

Received **02/22/06**

Matrix **Aqueous**

Sampled **02/22/06**

### Pesticides

Prep Method	608	Prep Batch	9027	Date/Time Prepped	02/27/06 15:25	Analytical Batch	13984		
Compound	Result	Units	SQL	DF	Date/Time Analyzed	By	Analytical Method		
Aldrin	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
alpha-BHC	<b>0.0561</b>	µg/L	<b>0.0404</b>	<b>10</b>	<b>02/28/06 23:41</b>	<b>DPC</b>	<b>608</b>		
beta-BHC	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
delta-BHC	<b>0.0945</b>	µg/L	<b>0.0404</b>	<b>10</b>	<b>02/28/06 23:41</b>	<b>DPC</b>	<b>608</b>		
gamma-BHC	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
Chlordane	< 0.202	µg/L	0.202	10	02/28/06 23:41	DPC	608		
4,4'-DDD	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
4,4'-DDE	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
4,4'-DDT	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
Dieldrin	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
Endosulfan I	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
Endosulfan II	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
Endosulfan sulfate	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
Endrin	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
Endrin aldehyde	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
Endrin Ketone	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
Heptachlor	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
Heptachlor epoxide	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
Methoxychlor	< 0.0404	µg/L	0.0404	10	02/28/06 23:41	DPC	608		
Toxaphene	< 0.303	µg/L	0.303	10	02/28/06 23:41	DPC	608		
Surrogate: Decachlorobiphenyl			<b>32 % *</b>		Limits: <b>36-116</b>				
Surrogate: Tetrachloro-m-xylene			<b>6 % *</b>		Limits: <b>25-123</b>				

<b>Qualifiers/</b>	* Surrogate Recovery outside accepted limits.	* I Recoveries affected by interferences or high background.
<b>Definitions</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor
	E Value exceeds method calibration range	H Prepped / Analyzed out of holding time.
	J Estimated Value Analyte below reported detection limit	M Minimum value.
	MDL Method Detection Limit (unadjusted)	SQL Method Quantitation Limit
	MRL Method Reporting Limit	SQL Sample Quantitation Limit (adjusted MDL)



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**West Memphis Utility**  
P. O. Box 1868  
West Memphis, AR 72301

Project **WWTP**  
Description

Lab Order Number **0602754**  
Lab ID **0602754-011A**  
Field ID **Influent WWTP 2/21-22/06**

Received **02/22/06**  
Matrix **Aqueous**  
Sampled **02/22/06**

## PCB's

Prep Method	608	Prep Batch	9026	Date/Time Prepped	02/27/06 15:25	Analytical Batch	13957		
Compound	Result	Units	MQL	DF	Date/Time Analyzed	By	Analytical Method		
Aroclor 1016	< 0.505	µg/L	0.505	1	02/28/06 18:19	DPC	608		
Aroclor 1221	< 0.505	µg/L	0.505	1	02/28/06 18:19	DPC	608		
Aroclor 1232	< 0.505	µg/L	0.505	1	02/28/06 18:19	DPC	608		
Aroclor 1242	< 0.505	µg/L	0.505	1	02/28/06 18:19	DPC	608		
Aroclor 1248	< 0.505	µg/L	0.505	1	02/28/06 18:19	DPC	608		
Aroclor 1254	< 0.505	µg/L	0.505	1	02/28/06 18:19	DPC	608		
Aroclor 1260	< 0.505	µg/L	0.505	1	02/28/06 18:19	DPC	608		
Surrogate:	<b>Decachlorobiphenyl</b>		<b>20 % *</b>		<b>Limits: 36-116</b>				
Surrogate:	<b>Tetrachloro-m-xylene</b>		<b>46 %</b>		<b>Limits: 25-123</b>				

<b>Qualifiers/</b>	•	Surrogate Recovery outside accepted limits.	• I	Recoveries affected by interferences or high background.
<b>Definitions</b>	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	E	Value exceeds method calibration range	H	Prepped / Analyzed out of holding time.
	J	Estimated Value Analyte below reported detection limit	M	Minimum value.
	MDL	Method Detection Limit (unadjusted)	MQL	Method Quantitation Limit
	MRL	Method Reporting Limit	SQL	Sample Quantitation Limit (adjusted MDL)

CODE SHEET

Annual Report

		<u>CODE</u>
Auditor's Name	<u>Gilliam</u>	
Permit Number	<u>AR0022039</u>	
Period Report Covers End Date	<u>2/28/06</u>	PSED
Start Date	<u>3/1/05</u>	PSSD

PPETS WENDB DATA ELEMENTS

Significant IUs in Significant Noncompliance with Pretreatment Compliance Schedule	<u>0</u>	SSNC
NOV's and A.O.'s Issued Against Significant IUs	<u>34</u>	FENF
Civil and/or Criminal Judicial Actions Against Significant IUs	<u>0</u>	JUDI
Significant IUs with Significant Violations published in Newspaper	<u>1</u>	SVPU
IUs from which penalties have been collected	<u>0</u>	IUPN

COMMENTS:

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