

Parker Hannifin Corporation
Mobile Climate Systems Division
748 Hwy 463 South
Trumann, AR 72472
Phone 870-483-0512

October 26, 2010

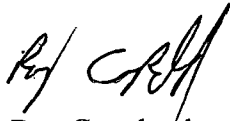
Rufus J. Torrence
ADEQ NPDES Engineer
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118

RE:Final Baseline Monitoring Report

Dear Mr. Torrence:

Enclosed is the requested Final Baseline Monitoring Report (BMR) and a copy of the waste water analysis from Arkansas Analytical.

Sincerely,



Ray Copeland
Manufacturing Engineer

Enclosures (2)

CC: Scotty Jones, Manager
Trumann Waterworks
106 E Main St.
Trumann, AR 72472

FINAL BASELINE MONITORING REPORT

FOR A

40CFR433 CATEGORICAL INDUSTRY

90 Day Compliance Report per §403.12(d)

Instructions: In accordance with 40CFR403.12(b) & (d) Industrial Users subject to categorical Pretreatment Standards are required to submit to ADEQ a report which contains the information in paragraphs (b)(1)-(7). Use of this form is not an EPA requirement. The User is responsible for submitting a complete and accurate report. Nonetheless, the User may complete this form in as much detail as possible. Include additional information on attached sheets as necessary where space is limited.

Return to: Water Div/NPDES Pretreatment

(1) User Identifying Information [§403.12(b)(1)]:

A. Legal Name: Parker Hannifin Corp. _____

Mailing Address: 748 Hwy 463 South _____
Trumann, AR 72472 _____

B. Facility Name: Parker Hannifin Corp. _____

Location: Trumann, AR _____

C. Name of Owners: _____

D. Name of Operators: _____

E. Facility Contact (Provide the name, title & phone number of a designated person to contact if additional information is necessary) :
Ray Copeland, Manufacturing Engineer 870-483-0512 _____

F. Number of Employees 17 G. Number of Shifts 1

H. Number of Months per Calendar Year which Plant normally operates 12

I. Publicly Owned Treatment Works (POTW) (Provide the name of the sewerage authority, municipality, etc. that receives the wastewater discharges from this facility--If this facility is not connected to a sewerage system describe where wastewater is discharged)
Trumann Water Works _____

J. Provide the date the facility began regulated discharge to the POTW (sewerage authority, municipality, etc.)
October 2005

Date facility installed/commence construction of 40CFR433 Core operation(s) October 2005

(2) User's Permits [§403.12(b)(2)]:

Describe all environmental control permits held by or for the facility

Describe Title of the Permit	Permit No.	Issuing Office	Exp. Date
N/A			

(3) Description of User Operations [§403.12(b)(3)]:

A. List Raw Material/Basis Metals Used:

Aluminum
Rubber Hose

B. List Toxic Organics (TTO) & alloy metals and their source (Name of Chemical/Basis Metal):

C. Describe Manufacturing or Service Activities Conducted and the Final Products:

Aluminum tube is cut, formed, cleaned, etched and brazed.
Tubing is mechanically attached to hose to produce automotive A/C plumbing.

D. Summarize each Point Source Category (This form is for only the Metal Finishing Category):

40CFR433 Aluminum tubing is etched using a 5% Hydrofluoric acid mixture
 Source Category _____

3.D (Con'd) Summarize each Core process [Electroplating, Electroless Plating, Anodizing, Coating (chromating, phosphating & coloring), Chemical Etching & Milling or Printed Circuit Board Manufacture]:

Process Description	Pretreatment Standard Category	Subpart	SIC Code	Date Process was Installed
Chemical Etching and Milling	40CFR433	A	3714	Oct 2005

*Process Description must be exactly as shown in the applicable 40CFR SubPart; for example, 40CFR433 SubPart A lists "Electroplating", "Electroless Plating", "Anodizing", "Coating", "Chemical Etching and Milling" and "Printed Circuit Board Manufacture".

E. Provide on a separate sheet(s):

- (i) A schematic drawing/chart of manufactured parts flow through each regulated process that generates wastewater--optional for users with only concentration-based standards.
- (ii) A schematic drawing showing all wastewater flows (regulated and unregulated), location of any treatment system, and sampling locations and flows for each individual wastestream. Show points of discharge to the POTW from regulated processes (blank schematic enclosed).

(4) User Flow Measurement [§403.12(b)(4)]:

A. Total Plant Flow in Gallons per Day (gpd):

Average 397 Maximum 2865

B. Individual Process Flows in Gallons per Day¹ (gpd)

¹Referring to 40CFR403.6(e)(1) average flows must be for a 30-day period. Batch discharges which are less frequent than monthly should be normalized to a 365-day period.

STREAMS² <small>Dilute wastestreams include non-contact cooling water, sanitary waste, etc.</small>	Average Flow/Rate (gpd)	Max. Flow/Rate (gpd)	Type Discharge³
Regulated Streams			
Etching	0.05	50	Batch (tri-annual)
Unregulated Streams			
Dilute Streams			
Non-Contact Cooling Water			
Sanitary Wastewater	370	555	Continuous
Parts washing system	25	2250	Batch (quarterly)

² Regulated processes have wastestreams regulated by federal standards.
Unregulated processes have wastestreams (which are not regulated by federal standards) with federally regulated parameters.
Nonregulated processes have unregulated and/or dilute wastestreams.

³ Show type; for example--Continuous, Batch (Monthly, Semi-annually, etc), Intermittent (5 days/week, 25 days/30-day period, etc.)

(5) Measurement of Pollutants in User's Discharge to POTW [§§403.6(a) & 403.12(5)]:

A. (i) Cite Evidence Why Subpart A (40CFR433) is applicable to each Core process⁴:

Etching
Core Process _____

In reference to Table 5-16 on page V-39 in EPA Development Document for the Metal Finishing Point Source, hydrofluoric acid is used in etching operations. According to a patent process (US4426252), "Etchants based on hydrofluoric acid...have been used successfully to produce..." desired coatings on aluminum. Therefore, the etching operation in the Parker Hannifin Trumann plant falls under 40 CFR Part 433 Subcategory A "Chemical Etching & Milling and Coating".

(ii) Provide on a separate sheet a description of all wastewater treatment utilized (show treatment system location in relation to process flows and sampling points on schematic drawing required in Section 3.E above).

B. Analysis of Regulated Flows: The industrial user must perform sampling and analysis of the effluent from all regulated processes which discharge into the POTW (after treatment, if applicable). Provide the analytical data for the regulated processes in the appropriate space below.

CONCENTRATIONS (mg/l)									
Basis	Pollutant								
	Cd	Cr	Cu	Pb	Ni	Ag	Zn	CN	TTO
Maximum	<0.0005	0.019	0.029	<0.015	<0.010	<0.020	0.318	<0.010	0.169
Average	<0.0005	0.019	0.029	<0.015	<0.010	<0.020	0.318	<0.010	0.169

C. Analysis of Total Plant Flow (Mark each blank "N/A" if not appropriate/applicable)

In accordance with 40CFR403.6(e) an industrial user may sample and analyze the total plant flow and calculate an alternate concentration limit using the combined wastestream formula if regulated process flows are mixed with other flows prior to treatment and/or sampling. Record the analytical results for all regulated pollutants below. Record the calculated concentration limits as well as the actual measured concentrations.

CONCENTRATIONS (mg/l)									
Basis ⁵	Pollutant								
AMAC --- Actual Measured Average Concentration from Lab results	Cd	Cr	Cu	Pb	Ni	Ag	Zn	CN	TTO
MAC									
AAC									
AMMC									
AMAC									

⁴§403.6(a)(2)(ii)--Optional for Existing Sources and for New Sources which have requested certification.

⁵ MAC --- Maximum Alternate Concentration as determined by ADEQ
AMMC --- Actual Measured Maximum Concentration from Lab results

AAC --- Average Alternate Concentration as determined by ADEQ
AMAC --- Actual Measured Average Concentration from Lab Results

D. User Sample Location: Process waste collection tank

Sample Type (Composite samples are required except where not feasible or where grab samples are specifically required-- refer to 40CFR403.12(b)(5)(iii): Grab

Number of Samples Taken: 1 Frequency (Daily, Weekly, etc) Yearly

Analytical Methods Used (Must be in accordance with 40CFR136--for example: EPA 608, 625, etc.)
608, 624, 625, 4500-CN E/9014

(6) Certifications [§§403.12(b)(5)(viii) & 403.12(b)(6)]:

40 CFR 403.12(b)(6) Compliance Certification

A. Are applicable categorical pretreatment standards being met on a consistent basis? YES ___ NO ___

B. If no, do you require:

(i) Additional operation and maintenance (O&M) to achieve compliance? YES ___ NO ___

(ii) New or additional pretreatment facilities to achieve compliance? YES ___ NO ___

40 CFR 403.12(b)(5)(viii) Representative Certification

I certify, to the best of my knowledge, that the sampling and analysis as shown in Section 5 above is representative of the User's normal work cycles and the expected Discharges to the POTW.

In accordance with 40CFR403.12(b)(5)(viii) & (6) a qualified professional must complete and sign these certifications in the space below.

Name & Title _____
Qualified Professional (Please Type or Print)

Signature

Date _____

(7) A. If additional O&M or new or additional pretreatment will be required to meet categorical pretreatment standards on a consistent basis, provide an explanation in an attachment. In accordance with §403.12(b)(7) as of February 15, 1986 all 40CFR433 Metal Finishers were required to be in compliance. New sources must not commence discharge until compliance is possible.

B. Signatory Requirement [40 CFR 403.12(l)]

40 CFR 403.12(l)(3) Authorization to Sign Environmental Reports

I hereby authorize persons filling the position title of _____, responsible for the overall operation of the _____ facility in _____, Arkansas, to sign all regular reports required by National Pretreatment Standards--pursuant to ADEQ rules and/or Clean Water Act (CWA) regulations. This written authorization is provided in accordance with 40 CFR 403.12(l) and comparable state regulations.

Corporate official name & title here

Signature

Date

40 CFR 403.6(a)(2)(ii) Certification

I certify under penalty of law that I have personally examined and am familiar with the information in this Baseline Monitoring Report and all attachments, and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the report, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

GARY WRINKIE

Name of Authorized Representative (Please Type or Print)

FACILITY MANAGER

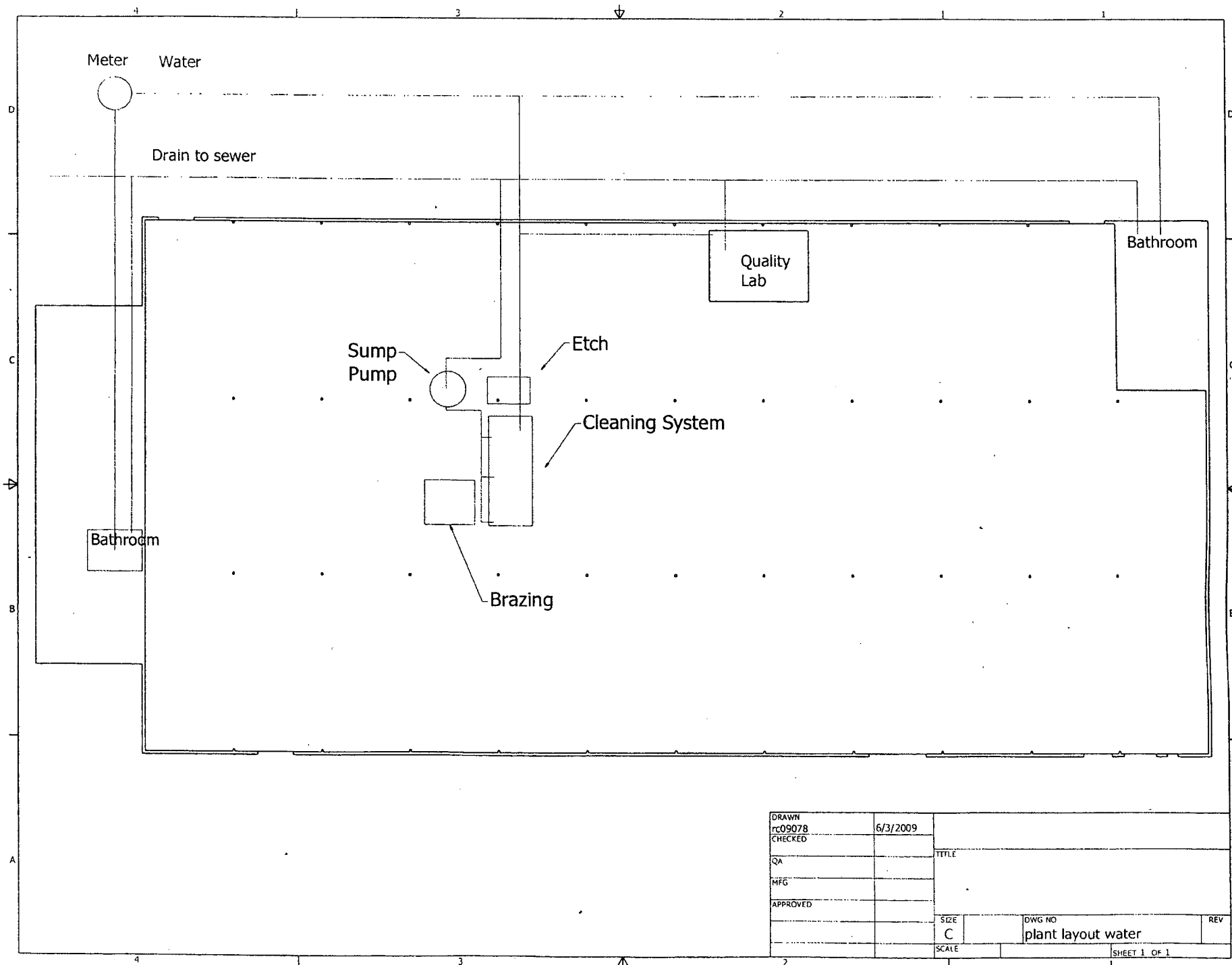
Official Title (Please Type or Print)

Gary Winkle

Signature

10-26-10

Date



DRAWN rc09078	6/3/2009		
CHECKED		TITLE	
QA			
MFG			
APPROVED			
		SIZE C	DWG NO plant layout water
		SCALE	REV
			SHEET 1 OF 1



11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209
501-455-3233 Fax 501-455-6118

20 October 2010

Ray Copeland
Parker Hannifin
748 Hwy. 463 S
Trumann, AR 72472

RE: Waste Water Test
SDG Number: 1010070

Enclosed are the results of analyses for samples received by the laboratory on 12-Oct-10 10:40. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Intact	✓
COC/Labels Agree	✓
Preservation Confirmed	✓
Received On Ice	✓
Temperature on Receipt	4.0°C

Sincerely,

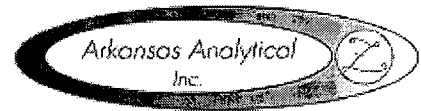
A handwritten signature in cursive script that reads "Norma James".

Norma James
President

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20 October 2010

Ray Copeland
Parker Hannifin
748 Hwy. 463 S
Trumann, AR 72472
Project: Waste Water Test



Date Received: 12-Oct-10 10:40

CASE NARRATIVE

SAMPLE DELIVERY GROUP 1010070:

Quality control excursions resulting in data qualification are discussed below.

PPS Acid and Base/Neutral Compounds:

Continuing Calibration Verification (CCV) failures: The following analytes failed to meet method specified criteria in the CCV: 1,2-Dichlorobenzene; 2,4-Dinitrophenol; 4,6-Dinitro-2-methylphenol; Benzidine; 3,3'Dichlorobenzene. These analytes were qualified as "estimated" (E21).

MS/MSD Failure: Several spiked analytes failed to meet acceptance criteria in the MS/MSD. These recoveries were qualified by "%D1" in the Quality Control Section of the final report and these analytes were qualified as "estimated" in the parent sample (which is not in this SDG)

Internal Standard Failure/ EDL Results: The internal standard, Perylene-d12, failed to meet acceptability criteria for the sample 1010070-01. A dilution of this sample was analyzed and the internal standard passed. The non-detect results for analytes associated with this internal standard were qualified as "EDL" on the final report.

Pesticides Analysis:

MS/MSD Failure: The recoveries for Heptachlor, Heptachlor Epoxide, Beta BHC, and Endosulfan 1 failed to meet acceptability criteria in the MS/MSD. The recoveries were qualified as "%D1" in the Quality Control Section of the final report and these analytes were qualified as "estimated" (E20) in the parent sample, 1010070-01.

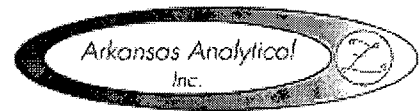
Volatiles Analysis:

MS/MSD Failure: The recoveries of Bromomethane; 2-Chloroethyl vinyl ether; Chloroethane; 1,1,1-Trichloroethane; Chlorobenzene; Tetrachloroethene; failed to meet acceptance criteria in either the MS and/or MSD. The recoveries were qualified as "%D1" in the Quality Control Section of the final report and these analytes were qualified as "estimated" (E20) in the parent sample, 1010070-01.

Headspace: All volatiles results were qualified as "estimated" due to the presence of headspace in each volatile container.

20 October 2010

Ray Copeland
Parker Hannifin
748 Hwy. 463 S
Trumann, AR 72472
Project: Waste Water Test



Date Received: 12-Oct-10 10:40

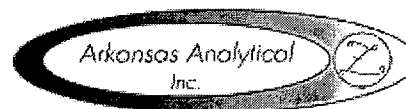
ANALYTICAL RESULTS

Lab Number: 1010070-01
Sample Name: Waste Water
Date/Time Collected: 10/11/10 9:00
Sample Matrix: Water

<u>Acid Compounds</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
2,4,6-Trichlorophenol	ug/L	< 10.0		10/12/10 17:12	A010102	625
2,4-Dichlorophenol	ug/L	< 10.0		10/12/10 17:12	A010102	625
2,4-Dimethylphenol	ug/L	< 10.0		10/12/10 17:12	A010102	625
2,4-Dinitrophenol	ug/L	< 50.0	E21	10/12/10 17:12	A010102	625
2-Chlorophenol	ug/L	< 10.0		10/12/10 17:12	A010102	625
2-Nitrophenol	ug/L	< 20.0		10/12/10 17:12	A010102	625
4-Chloro-3-methylphenol	ug/L	< 10.0		10/12/10 17:12	A010102	625
4-Nitrophenol	ug/L	< 50.0		10/12/10 17:12	A010102	625
Pentachlorophenol	ug/L	< 5.00		10/12/10 17:12	A010102	625
Phenol	ug/L	< 10.0		10/12/10 17:12	A010102	625
2-Methyl-4,6-dinitrophenol	ug/L	< 50.0	E21	10/12/10 17:12	A010102	625
2,4,6-Tribromophenol [surr]	%	46.6		10/12/10 17:12	A010102	625
2-Fluorophenol [surr]	%	31.7		10/12/10 17:12	A010102	625
Phenol-d5 [surr]	%	30.0		10/12/10 17:12	A010102	625
<u>Base/Neutral Compounds</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
1,2,4-Trichlorobenzene	ug/L	< 10.0		10/12/10 17:12	A010102	625
1,2-Dichlorobenzene	ug/L	< 10.0	E21	10/12/10 17:12	A010102	625
1,2-Diphenyl Hydrazine	ug/L	< 20.0		10/12/10 17:12	A010102	625
1,3-Dichlorobenzene	ug/L	< 10.0		10/12/10 17:12	A010102	625
1,4-Dichlorobenzene	ug/L	< 10.0		10/12/10 17:12	A010102	625
2,3,7,8-TCDD Screen	ug/L	< 10.0		10/12/10 17:12	A010102	625
2,4-Dinitrotoluene	ug/L	< 10.0		10/12/10 17:12	A010102	625
2,6-Dinitrotoluene	ug/L	< 10.0		10/12/10 17:12	A010102	625
2-Chloronaphthalene	ug/L	< 10.0		10/12/10 17:12	A010102	625
3,3'-Dichlorobenzidine	ug/L	< 5.00	E21	10/12/10 17:12	A010102	625
4-Bromophenyl-phenylether	ug/L	< 10.0		10/12/10 17:12	A010102	625
4-Chlorophenyl-phenylether	ug/L	< 10.0		10/12/10 17:12	A010102	625
Acenaphthene	ug/L	< 10.0		10/12/10 17:12	A010102	625
Acenaphthylene	ug/L	< 10.0		10/12/10 17:12	A010102	625
Anthracene	ug/L	< 10.0		10/12/10 17:12	A010102	625
Benzidine	ug/L	< 50.0	E21	10/12/10 17:12	A010102	625
Benzo[a]pyrene	ug/L	< 50.0	EDL	10/12/10 17:57	A010102	625
Benzo[b]fluoranthene	ug/L	< 100	EDL	10/12/10 17:57	A010102	625
Benzo[g,h,i]perylene	ug/L	< 200	EDL	10/12/10 17:57	A010102	625
Benzo[k]fluoranthene	ug/L	< 50.0	EDL	10/12/10 17:57	A010102	625
Benzo (a) anthracene	ug/L	< 5.00		10/12/10 17:12	A010102	625
Bis(2-chloroethoxy)methane	ug/L	< 10.0		10/12/10 17:12	A010102	625
Bis(2-chloroethyl)ether	ug/L	< 10.0		10/12/10 17:12	A010102	625
Bis(2-chloroisopropyl)ether	ug/L	< 10.0		10/12/10 17:12	A010102	625
Bis(2-ethylhexyl)phthalate	ug/L	169		10/12/10 17:57	A010102	625
Butylbenzylphthalate	ug/L	< 10.0		10/12/10 17:12	A010102	625
Chrysene	ug/L	< 5.00		10/12/10 17:12	A010102	625
Dibenz[a,h]anthracene	ug/L	< 50.0	EDL	10/12/10 17:57	A010102	625

20 October 2010

Ray Copeland
Parker Hannifin
748 Hwy. 463 S
Trumann, AR 72472
Project: Waste Water Test



Date Received: 12-Oct-10 10:40

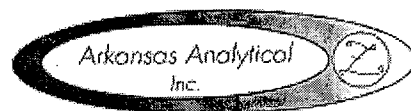
ANALYTICAL RESULTS

Lab Number: 1010070-01
Sample Name: Waste Water
Date/Time Collected: 10/11/10 9:00
Sample Matrix: Water

<u>Base/Neutral Compounds</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Diethylphthalate	ug/L	< 10.0		10/12/10 17:12	A010102	625
Dimethylphthalate	ug/L	< 10.0		10/12/10 17:12	A010102	625
Di-n-butylphthalate	ug/L	< 10.0		10/12/10 17:12	A010102	625
Di-n-octylphthalate	ug/L	< 100	EDL	10/12/10 17:57	A010102	625
Fluoranthene	ug/L	< 10.0		10/12/10 17:12	A010102	625
Fluorene	ug/L	< 10.0		10/12/10 17:12	A010102	625
Hexachlorobenzene	ug/L	< 5.00		10/12/10 17:12	A010102	625
Hexachlorobutadiene	ug/L	< 10.0		10/12/10 17:12	A010102	625
Hexachlorocyclopentadiene	ug/L	< 10.0		10/12/10 17:12	A010102	625
Hexachloroethane	ug/L	< 20.0		10/12/10 17:12	A010102	625
Indeno[1,2,3-cd]pyrene	ug/L	< 50.0	EDL	10/12/10 17:57	A010102	625
Isophorone	ug/L	< 10.0		10/12/10 17:12	A010102	625
Naphthalene	ug/L	< 10.0		10/12/10 17:12	A010102	625
Nitrobenzene	ug/L	< 10.0		10/12/10 17:12	A010102	625
N-Nitrosodimethylamine	ug/L	< 50.0		10/12/10 17:12	A010102	625
N-Nitroso-di-n-propylamine	ug/L	< 20.0		10/12/10 17:12	A010102	625
N-Nitrosodiphenylamine	ug/L	< 20.0		10/12/10 17:12	A010102	625
Phenanthrene	ug/L	< 10.0		10/12/10 17:12	A010102	625
Pyrene	ug/L	< 10.0		10/12/10 17:12	A010102	625
2-Fluorobiphenyl [surr]	%	54.0		10/12/10 17:12	A010102	625
Nitrobenzene-d5 [surr]	%	64.4		10/12/10 17:12	A010102	625
Terphenyl-d14 [surr]	%	21.5		10/12/10 17:12	A010102	625
<u>Pesticides/PCBs</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Aldrin	ug/L	< 0.010		10/19/10 23:08	A010146	608
alpha-BHC	ug/L	< 0.050		10/19/10 23:08	A010146	608
beta-BHC	ug/L	< 0.050	E20	10/19/10 23:08	A010146	608
gamma-BHC (Lindane)	ug/L	< 0.050		10/19/10 23:08	A010146	608
delta-BHC	ug/L	< 0.050		10/19/10 23:08	A010146	608
Chlordane	ug/L	< 0.200		10/19/10 23:08	A010146	608
4,4'-DDT	ug/L	< 0.020		10/19/10 23:08	A010146	608
4,4'-DDE	ug/L	< 0.100		10/19/10 23:08	A010146	608
4,4'-DDD	ug/L	< 0.100		10/19/10 23:08	A010146	608
Dieldrin	ug/L	< 0.020		10/19/10 23:08	A010146	608
Endosulfan I	ug/L	< 0.010	E20	10/19/10 23:08	A010146	608
Endosulfan II	ug/L	< 0.020		10/19/10 23:08	A010146	608
Endosulfan sulfate	ug/L	< 0.100		10/19/10 23:08	A010146	608
Endrin	ug/L	< 0.020		10/19/10 23:08	A010146	608
Endrin aldehyde	ug/L	< 0.100		10/19/10 23:08	A010146	608
Heptachlor	ug/L	< 0.010	E20	10/19/10 23:08	A010146	608
Heptachlor epoxide	ug/L	< 0.010	E20	10/19/10 23:08	A010146	608
Chlorpyrifos	ug/L	< 0.070		10/19/10 23:08	A010146	608
Aroclor-1242	ug/L	< 0.200		10/19/10 23:08	A010146	608
Aroclor-1254	ug/L	< 0.200		10/19/10 23:08	A010146	608

20 October 2010

Ray Copeland
Parker Hannifin
748 Hwy. 463 S
Trumann, AR 72472
Project: Waste Water Test



Date Received: 12-Oct-10 10:40

ANALYTICAL RESULTS

Lab Number: 1010070-01
Sample Name: Waste Water
Date/Time Collected: 10/11/10 9:00
Sample Matrix: Water

<u>Pesticides/PCBs</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Aroclor-1221	ug/L	< 0.200		10/19/10 23:08	A010146	608
Aroclor-1232	ug/L	< 0.200		10/19/10 23:08	A010146	608
Aroclor-1248	ug/L	< 0.200		10/19/10 23:08	A010146	608
Aroclor-1260	ug/L	< 0.200		10/19/10 23:08	A010146	608
Aroclor-1016	ug/L	< 0.200		10/19/10 23:08	A010146	608
Toxaphene	ug/L	< 0.300		10/19/10 23:08	A010146	608
TCMX [surr]	%	55.7		10/19/10 23:08	A010146	608
DCBP [surr]	%	66.3		10/19/10 23:08	A010146	608

<u>Total Metals</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Cadmium	mg/L	< 0.0005		10/14/10 22:03	A010141	200.7
Chromium	mg/L	0.019		10/14/10 22:03	A010141	200.7
Copper	mg/L	0.029		10/14/10 22:03	A010141	200.7
Lead	mg/L	< 0.015		10/14/10 22:03	A010141	200.7
Nickel	mg/L	< 0.010		10/14/10 22:03	A010141	200.7
Silver	mg/L	< 0.020		10/14/10 22:03	A010141	200.7
Zinc	mg/L	0.318		10/14/10 22:03	A010141	200.7

<u>Volatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
1,1,1-Trichloroethane	ug/L	< 10.0	E20, E50	10/12/10 13:46	A010111	624
1,1,2,2-Tetrachloroethane	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
1,1,2-Trichloroethane	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
1,1-Dichloroethane	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
1,1-Dichloroethene	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
1,2-Dichloroethane	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
1,2-Dichloropropane	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
2-Chloroethyl vinyl ether	ug/L	< 10.0	E20, E50	10/12/10 13:46	A010111	624
Acrolein	ug/L	< 50.0	E50	10/12/10 13:46	A010111	624
Acrylonitrile	ug/L	< 20.0	E50	10/12/10 13:46	A010111	624
Benzene	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
Bromodichloromethane	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
Bromoform	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
Bromomethane	ug/L	< 50.0	E20, E50	10/12/10 13:46	A010111	624
Carbon tetrachloride	ug/L	< 2.00	E50	10/12/10 13:46	A010111	624
Chlorobenzene	ug/L	< 10.0	E20, E50	10/12/10 13:46	A010111	624
Chlorodibromomethane	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
Chloroethane	ug/L	< 50.0	E20, E50	10/12/10 13:46	A010111	624
Chloroform	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
Chloromethane	ug/L	< 50.0	E50	10/12/10 13:46	A010111	624
cis-1,3-Dichloropropene	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
Ethylbenzene	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
Methylene chloride	ug/L	< 20.0	E50	10/12/10 13:46	A010111	624
Tetrachloroethene	ug/L	< 10.0	E20, E50	10/12/10 13:46	A010111	624
Toluene	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624

20 October 2010

Ray Copeland
Parker Hannifin
748 Hwy. 463 S
Trumann, AR 72472
Project: Waste Water Test



Date Received: 12-Oct-10 10:40

ANALYTICAL RESULTS

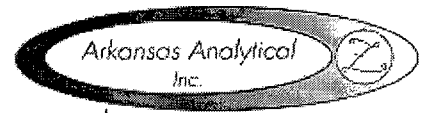
Lab Number: 1010070-01
Sample Name: Waste Water
Date/Time Collected: 10/11/10 9:00
Sample Matrix: Water

<u>Volatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
trans-1,2-Dichloroethene	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
Trichloroethene	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
Vinyl chloride	ug/L	< 10.0	E50	10/12/10 13:46	A010111	624
4-Bromofluorobenzene [surr]	%	97.5		10/12/10 13:46	A010111	624
Dibromofluoromethane [surr]	%	100		10/12/10 13:46	A010111	624
Toluene-d8 [surr]	%	99.3		10/12/10 13:46	A010111	624

<u>Wet Chemistry</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Cyanide (total)	mg/L	< 0.010		10/18/10 10:06	A010178	4500-CN E/9014

20 October 2010

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748 Hwy. 463 S
Trumann, AR 72472
Project: Waste Water Test



Date Received: 12-Oct-10 10:40

QUALITY CONTROL RESULTS

20 October 2010

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 748 Hwy. 463 S
 Trumann, AR 72472
 Project: Waste Water Test



Date Received: 12-Oct-10 10:40

QUALITY CONTROL RESULTS

Base/Neutral Compounds -- Batch: A010102 (Water)

Prepared: 11-Oct-10 13:43 By: WF -- Analyzed: 12-Oct-10 13:24 By: tb

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,2,4-Trichlorobenzene	<10.0 ug/L	59.4% / NA	62.4% / 59.7%		4.47%	
1,2-Dichlorobenzene	<10.0 ug/L	53.1% / NA	53.1% / 50.8%		4.26%	E21
1,2-Diphenyl Hydrazine	<20.0 ug/L	79.0% / NA	72.8% / 79.1%		8.38%	
1,3-Dichlorobenzene	<10.0 ug/L	55.5% / NA	58.8% / 53.6%		9.26%	
1,4-Dichlorobenzene	<10.0 ug/L	56.7% / NA	57.7% / 56.8%		1.56%	
2,4,6-Trichlorophenol	<10.0 ug/L	73.8% / NA	72.5% / 76.9%		5.87%	
2,4-Dichlorophenol	<10.0 ug/L	72.3% / NA	76.7% / 76.1%		0.713%	
2,4-Dimethylphenol	<10.0 ug/L	72.9% / NA	81.7% / 80.2%		1.90%	
2,4-Dinitrophenol	<50.0 ug/L	69.8% / NA	78.8% / No Rec		NA	E21, NREC
2,4-Dinitrotoluene	<10.0 ug/L	81.8% / NA	77.8% / 68.0%		13.5%	
2,6-Dinitrotoluene	<10.0 ug/L	76.7% / NA	72.7% / 70.7%		2.77%	
2-Chloronaphthalene	<10.0 ug/L	71.4% / NA	69.0% / 69.5%		0.722%	
2-Chlorophenol	<10.0 ug/L	71.5% / NA	72.2% / 74.8%		3.53%	
2-Nitrophenol	<20.0 ug/L	70.9% / NA	73.2% / 56.7%		25.4%	D1
3,3-Dichlorobenzidine	<5.00 ug/L	99.6% / NA	34.1% / 43.9%		25.2%	E21
4,6-Dinitro-o-cresol	<50.0 ug/L	68.5% / NA	64.9% / No Rec		NA	E21
4-Bromophenyl-phenylether	<10.0 ug/L	75.9% / NA	72.6% / 35.9%		67.8%	%D1
4-Chloro-3-methylphenol	<10.0 ug/L	81.3% / NA	85.2% / 115%		29.7%	%D1, D1
4-Chlorophenyl-phenylether	<10.0 ug/L	73.7% / NA	72.9% / 71.2%		2.41%	
4-Nitrophenol	<50.0 ug/L	57.3% / NA	No Rec / No Rec		NA	NREC
Acenaphthene	<10.0 ug/L	75.1% / NA	70.3% / 70.5%		0.284%	
Acenaphthylene	<10.0 ug/L	70.7% / NA	68.8% / 71.9%		4.42%	
Anthracene	<10.0 ug/L	80.1% / NA	79.7% / 85.5%		6.93%	
Anthracidine	<50.0 ug/L	72.2% / NA	No Rec / No Rec		%	E21, NREC
Benzo (a) anthracene	<5.00 ug/L	81.7% / NA	88.0% / 86.9%		1.27%	
Benzo[a]pyrene	<5.00 ug/L	78.0% / NA	81.0% / 81.0%		0.0926%	
Benzo[b]fluoranthene	<10.0 ug/L	79.0% / NA	82.6% / 84.9%		2.76%	
Benzo[g,h,i]perylene	<20.0 ug/L	75.3% / NA	90.7% / 69.6%		26.3%	
Benzo[k]fluoranthene	<5.00 ug/L	80.8% / NA	82.4% / 81.9%		0.578%	
Bis(2-chloroethoxy)methane	<10.0 ug/L	73.6% / NA	73.3% / 74.7%		1.97%	
Bis(2-chloroethyl)ether	<10.0 ug/L	74.6% / NA	72.4% / 72.4%		0.0138%	
Bis(2-chloroisopropyl)ether	<10.0 ug/L	75.3% / NA	72.6% / 69.6%		4.23%	
Bis(2-ethylhexyl)phthalate	<10.0 ug/L	86.8% / NA	82.7% / 87.4%		5.34%	
Butylbenzylphthalate	<10.0 ug/L	92.8% / NA	85.2% / 85.3%		0.0821%	
Chrysene	<5.00 ug/L	75.1% / NA	73.2% / 72.7%		0.733%	
Dibenz[a,h]anthracene	<5.00 ug/L	76.6% / NA	88.1% / 88.5%		0.447%	
Diethylphthalate	<10.0 ug/L	84.1% / NA	78.9% / 78.1%		0.993%	
Dimethylphthalate	<10.0 ug/L	73.0% / NA	78.9% / 78.1%		0.981%	
Di-n-butylphthalate	<10.0 ug/L	85.7% / NA	81.8% / 85.0%		3.84%	
Di-n-octylphthalate	<10.0 ug/L	81.1% / NA	87.6% / 88.2%		0.677%	
Fluoranthene	<10.0 ug/L	83.9% / NA	97.6% / 113%		14.8%	
Fluorene	<10.0 ug/L	73.8% / NA	74.8% / 73.6%		1.68%	
Hexachlorobenzene	<5.00 ug/L	77.3% / NA	68.0% / 36.5%		60.3%	%D1, D1
Hexachlorobutadiene	<10.0 ug/L	54.8% / NA	58.3% / 56.5%		3.15%	
Hexachlorocyclopentadiene	<10.0 ug/L	59.6% / NA	45.5% / No Rec		NA	NREC
Hexachloroethane	<20.0 ug/L	54.5% / NA	56.4% / 50.5%		11.0%	
Indeno[1,2,3-cd]pyrene	<5.00 ug/L	72.6% / NA	103% / 93.5%		9.20%	
Isophorone	<10.0 ug/L	75.9% / NA	73.4% / 73.4%		0.0204%	

20 October 2010

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Parker Hannifin
748 Hwy. 463 S
Trumann, AR 72472
Project: Waste Water Test



Date Received: 12-Oct-10 10:40

QUALITY CONTROL RESULTS

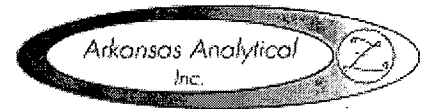
Base/Neutral Compounds -- Batch: A010102 (Water)

Prepared: 11-Oct-10 13:43 By: WF -- Analyzed: 12-Oct-10 13:24 By: tb

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Naphthalene	<10.0 ug/L	63.4% / NA	67.3% / 64.5%		4.23%	
Nitrobenzene	<10.0 ug/L	75.9% / NA	78.0% / 73.6%		5.86%	
N-Nitrosodimethylamine	<50.0 ug/L	51.2% / NA	47.4% / 50.9%		7.03%	
N-Nitroso-di-n-propylamine	<20.0 ug/L	76.6% / NA	78.0% / 82.2%		5.15%	
N-Nitrosodiphenylamine	<20.0 ug/L	76.2% / NA	72.7% / 78.0%		7.04%	
Pentachlorophenol	<5.00 ug/L	79.0% / NA	88.1% / 49.3%		56.5%	D1
Phenanthrene	<10.0 ug/L	75.2% / NA	79.5% / 73.8%		7.43%	
Phenol	<10.0 ug/L	42.2% / NA	MBA / MBA		8.32%	MBA
Pyrene	<10.0 ug/L	81.4% / NA	78.5% / 81.4%		3.63%	
2,4,6-Tribromophenol [surr]	82.2 %	83.2% / NA	92.2% / 85.3%		NA	
2-Fluorobiphenyl [surr]	83.2 %	80.5% / NA	77.9% / 78.1%		NA	
2-Fluorophenol [surr]	59.3 %	58.8% / NA	52.8% / 56.0%		NA	
Nitrobenzene-d5 [surr]	84.1 %	78.4% / NA	81.5% / 77.7%		NA	
Phenol-d5 [surr]	44.5 %	48.1% / NA	53.6% / 52.8%		NA	
Terphenyl-d14 [surr]	91.6 %	92.7% / NA	86.5% / 90.2%		NA	

20 October 2010

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Date Received: 12-Oct-10 10:40

QUALITY CONTROL RESULTS

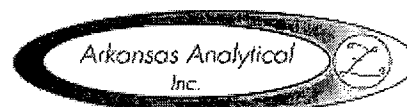
Volatiles -- Batch: A010111 (Water)

Prepared: 12-Oct-10 12:06 By: KR -- Analyzed: 12-Oct-10 15:54 By: KR

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,1,1-Trichloroethane	<10.0 ug/L	98.4% / NA	89.1% / 75.6%		16.4%	%D1, D1
1,1,2,2-Tetrachloroethane	<10.0 ug/L	73.4% / NA	93.1% / 97.9%		4.96%	
1,1,2-Trichloroethane	<10.0 ug/L	96.4% / NA	99.0% / 101%		2.13%	
1,1-Dichloroethane	<10.0 ug/L	98.6% / NA	99.4% / 92.4%		7.26%	
1,1-Dichloroethene	<10.0 ug/L	93.4% / NA	88.5% / 89.1%		0.603%	
1,2-Dibromoethane	<2.00 ug/L	97.2% / NA	99.4% / 102%		2.38%	
1,2-Dichlorobenzene	<5.00 ug/L	108% / NA	94.6% / 74.1%		24.3%	
1,2-Dichloroethane	<10.0 ug/L	98.7% / NA	100% / 97.6%		2.51%	
1,2-Dichloropropane	<10.0 ug/L	102% / NA	97.8% / 97.9%		0.107%	
1,3-Dichlorobenzene	<5.00 ug/L	100% / NA	96.4% / 69.7%		32.2%	%D1, D1
1,4-Dichlorobenzene	<5.00 ug/L	99.1% / NA	89.0% / 69.6%		24.5%	%D1, D1
2-Butanone	<50.0 ug/L	81.8% / NA	98.5% / 94.8%		3.60%	
2-Chloroethyl vinyl ether	<10.0 ug/L	89.7% / NA	No Rec / No Rec		NA	NREC
Acrolein	<50.0 ug/L	82.9% / NA	83.7% / 87.5%		4.50%	
Acrylonitrile	<20.0 ug/L	95.7% / NA	105% / 104%		0.346%	
Benzene	<10.0 ug/L	101% / NA	99.6% / 95.1%		4.58%	
Bromodichloromethane	<10.0 ug/L	103% / NA	101% / 98.4%		2.70%	
Bromoform	<10.0 ug/L	94.0% / NA	96.9% / 97.9%		1.01%	
Bromomethane	<50.0 ug/L	128% / NA	166% / 18.6%		160%	%D1, D1
Carbon tetrachloride	<2.00 ug/L	93.2% / NA	95.9% / 84.3%		12.9%	D1
Chlorobenzene	<10.0 ug/L	99.9% / NA	96.0% / 88.1%		8.58%	%D1
Chlorodibromomethane	<10.0 ug/L	95.2% / NA	96.9% / 96.2%		0.690%	
Chloroethane	<50.0 ug/L	98.1% / NA	62.4% / 33.9%		59.0%	%D1, D1
Chloroform	<10.0 ug/L	102% / NA	98.7% / 95.2%		3.43%	
Chloromethane	<50.0 ug/L	84.7% / NA	77.4% / 77.6%		0.245%	
cis-1,3-Dichloropropene	<10.0 ug/L	94.8% / NA	94.7% / 97.3%		2.65%	
Ethylbenzene	<10.0 ug/L	102% / NA	97.4% / 76.4%		24.2%	%D1, D1
Methylene chloride	<20.0 ug/L	106% / NA	99.9% / 93.4%		6.46%	
Tetrachloroethene	<10.0 ug/L	94.8% / NA	90.9% / 71.6%		23.8%	%D1, D1
Toluene	<10.0 ug/L	98.7% / NA	97.6% / 90.5%		7.57%	
trans-1,2-Dichloroethene	<10.0 ug/L	102% / NA	97.2% / 97.3%		0.118%	
trans-1,3-Dichloropropene	<10.0 ug/L	101% / NA	105% / 108%		2.27%	
Trichloroethene	<10.0 ug/L	109% / NA	102% / 91.4%		10.5%	
Trichlorofluoromethane	<50.0 ug/L	94.3% / NA	90.2% / 82.2%		9.29%	
Vinyl chloride	<10.0 ug/L	83.7% / NA	84.5% / 86.7%		2.57%	
4-Bromofluorobenzene [surr]	98.1 %	105% / NA	102% / 103%		NA	
Dibromofluoromethane [surr]	94.8 %	100% / NA	102% / 98.5%		NA	
Toluene-d8 [surr]	97.8 %	103% / NA	101% / 98.9%		NA	

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Date Received: 12-Oct-10 10:40

QUALITY CONTROL RESULTS

Total Metals -- Batch: A010141 (Water)

Prepared: 14-Oct-10 09:50 By: TC -- Analyzed: 15-Oct-10 08:25 By: TC

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Cadmium	<0.0005 mg/L	97.8% / NA	101% / 102%		1.37%	
Chromium	<0.010 mg/L	100% / NA	100% / 103%		2.72%	
Copper	<0.005 mg/L	104% / NA	101% / 101%		0.0293%	
Lead	<0.015 mg/L	102% / NA	98.6% / 98.6%		0.0900%	
Nickel	<0.010 mg/L	102% / NA	101% / 98.2%		2.66%	
Silver	<0.020 mg/L	98.3% / NA	96.1% / 96.3%		0.162%	
Zinc	<0.005 mg/L	97.6% / NA	94.9% / 93.6%		0.846%	

Pesticides/PCBs -- Batch: A010146 (Water)

Prepared: 14-Oct-10 14:53 By: WF -- Analyzed: 19-Oct-10 23:49 By: MG

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
4,4'-DDD	<0.100 ug/L	70.1% / NA	23.5% / 21.9%		6.83%	
4,4'-DDE	<0.100 ug/L	75.3% / NA	15.5% / 14.5%		6.65%	
4,4'-DDT	<0.020 ug/L	67.9% / NA	13.5% / 11.9%		9.83%	
Aldrin	<0.010 ug/L	75.1% / NA	21.2% / 21.4%		0.601%	
alpha-BHC	<0.050 ug/L	87.2% / NA	45.8% / 40.6%		12.1%	
beta-BHC	<0.050 ug/L	93.2% / NA	52.4% / 38.0%		32.0%	%D1, D1
delta-BHC	<0.050 ug/L	41.0% / NA	17.9% / 21.0%		16.1%	
Dieldrin	<0.020 ug/L	82.3% / NA	28.8% / 26.0%		10.3%	
Endosulfan I	<0.010 ug/L	108% / NA	36.9% / 34.1%		7.85%	%D1
Endosulfan II	<0.020 ug/L	71.7% / NA	87.8% / 74.3%		16.6%	
Endosulfan sulfate	<0.100 ug/L	59.8% / NA	57.7% / 44.3%		26.2%	D1
Endrin	<0.020 ug/L	73.3% / NA	32.5% / 29.1%		10.7%	
Endrin aldehyde	<0.100 ug/L	84.7% / NA	48.3% / 40.8%		16.9%	
gamma-BHC (Lindane)	<0.050 ug/L	86.8% / NA	54.6% / 48.9%		10.9%	
Heptachlor	<0.010 ug/L	88.0% / NA	26.8% / 26.2%		2.21%	%D1
Heptachlor epoxide	<0.010 ug/L	91.9% / NA	34.9% / 31.6%		9.99%	%D1
DCBP [surr]	27.6 %	44.0% / NA	27.0% / 33.0%		NA	
TCMX [surr]	62.5 %	73.4% / NA	50.9% / 48.4%		NA	

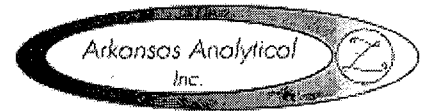
Wet Chemistry -- Batch: A010178 (Water)

Prepared: 18-Oct-10 10:06 By: SB -- Analyzed: 18-Oct-10 10:06 By: SB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Cyanide (total)	<0.010 mg/L	99.7% / NA	97.0% / 96.7%		0.341%	

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Date Received: 12-Oct-10 10:40

QUALIFIER(S)

- *%D1: Matrix Spike and/or Matrix Spike Duplicate Percent Recovery Does Not Meet Laboratory Acceptance Criteria
 - *D1: RPD Value Does Not Meet Laboratory Acceptance Criteria.
 - *E20: Estimated Result Due to Matrix Spike and/or Matrix Spike Duplicate Failure; This sample was used as "parent sample" in MS/MSD prep.
 - *E21: Estimated Result Due to Continuing Calibration Verification (CCV) Sample Failed to Meet Method Specified Criteria
 - *E50: Estimated result due to headspace in volatile container.
 - *EDL: Elevated Detection Limit Due to Necessary Sample Dilution
 - *MBA: Masked By Analyte
 - *NREC: No Recovery
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All Analysis performed according to EPA approved methodology when available:

SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods, 20th Edition.

Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

A handwritten signature in cursive script that reads "Norma James".

Reviewed by: _____

Norma James
President

