

From: [Gilliam, Allen](#)
To: chuck.jones@danfoss.com; [Katherine Yarberry](#)
Cc: [Burrow, Kealey](#); [Peltier, Hannah](#); [Arkadelphia - Brenda Gills](#); lrottenberry@harborenv.com
Subject: AR0020605_Danfoss ARP001040 July 2015 TOMP submittal and ADEQ approval_20150721
Date: Tuesday, July 21, 2015 10:42:09 AM
Attachments: [image002.png](#)
[Final Danfoss TOMP 20150721.pdf](#)

Chuck,

Danfoss' toxic organic management plan (TOMP) was electronically received, reviewed, adequately meets the requirements in 40 CFR 433.12(b) and approved by this office.

In its quarterly reports Danfoss may now certify, "Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to ADEQ" per 40 CFR 433.12(a).

According to the records on file, it was only after this office's directive Danfoss begin submitting lab analytical data (check your records for an email from this office to Chuck Jones dated 4/1/14).

An addendum report was sent by Danfoss with the lab's analytical results (sample date 1/8/14) and responded to by this office via another email on 4/14/14. Detectable toxic organics found were Chloroform (can be used as a component in a solvent or even a pesticide) and Bis (2-ethylhexyl) phthalate (commonly found in most plastics or plasticizers – lab contamination?).

Samples taken on 4/2/14 also detected Bis (2-ethylhexyl) phthalate, Di-n-butyl phthalate and Endosulfan sulfate (an insecticide). Danfoss may want to determine if Chloroform or Endosulfan sulfate is in its wastestream, lab contamination or pesticide treatments by further testing these toxic organics not identified in its TOMP. The Endosulfan sulfate may have shown up just from Danfoss' quarterly(?) pest treatments although literature research shows its ban was effective in mid-2012.

Bottom line, these few toxic organics were detectable in the single digit µg/l range except for one Bis (2-ethylhexyl) phthalate result at 15 µg/l and Danfoss' TOMP is deemed approvable.

Thank you for your efforts in this endeavor.

Sincerely,

Allen Gilliam
ADEQ State Pretreatment Coordinator
501.682.0625

Ec: Brenda Gills, Arkadelphia Utilities Manager
Katherin Yarberry, P.E., Harbor Consultant Engineer to Danfoss

From: Katherine Yarberry [mailto:kyarberry@harborenv.com]
Sent: Tuesday, July 21, 2015 8:36 AM
To: Gilliam, Allen
Cc: Jones Chuck; Lisa Rotenberry
Subject: Danfoss, LLC TOMP

Allen—

Attached you will find the Toxic Organic Management Plan (TOMP) for the Danfoss, LLC facility, submitted by Harbor on their behalf. With this submittal, Danfoss requests to be allowed to implement this TOMP in lieu of Total Toxic Organic monitoring.

If you have any questions or need any changes, please let me know.

Thanks!

Katherine Yarberry, P.E., *Professional Engineer*
Harbor · C 479.445.8787 · kyarberry@harborenv.com



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TOXIC ORGANIC MANAGEMENT PLAN

AFIN 10-00102



July 2015

Prepared for:
Danfoss, LLC
One Scroll Drive
Arkadelphia, AR 71923

Prepared by:
Harbor
Environmental | Safety | Engineering
8114 Cantrell Road
Suite 350
Little Rock, AR 72227
P: 501.663.8800
F: 501.588.0123
www.harborenv.com

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July 21, 2015

Mr. Allen Gilliam
Pretreatment Coordinator
Water Division, ADEQ
5301 Northshore Drive
North Little Rock, AR 72118-5317

**Re: Toxic Organic Management Plan
Danfoss, LLC – AFIN 10-00102**

Dear Mr. Gilliam:

Harbor Environmental and Safety is submitting the attached Toxic Organic Management Plan (TOMP) on behalf of the Danfoss, LLC facility (Danfoss) in Arkadelphia, AR. We request that Danfoss be allowed to implement this TOMP in lieu of Total Toxic Organic monitoring.

Should you have any questions or require additional information, please do not hesitate to contact me at 501.663.8800 or kyarberry@harborenv.com.

Sincerely,

HARBOR ENVIRONMENTAL AND SAFETY



Katherine Yarberry, P.E.
Professional Engineer



Lisa Rotenberry
Regional Director, Environmental Services

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1.0 Introduction & Certification

Certain regulated industrial users that discharge their wastewaters to municipal wastewater treatment plants must perform routine analyses for total toxic organic (TTO) compounds. The development of a Toxic Organic Management Plan (TOMP) is an alternative to routine TTO monitoring by regulated industrial users in the Electroplating, Metal Finishing, and Electrical and Electronic Components categories.

The Danfoss, LLC facility is regulated under the Metal Finishing Point Source category in 40 CFR Part 433. This category of industrial user is allowed to implement a TOMP in lieu of TTO monitoring in accordance with 40 CFR §433.17(d). The TOMP is required to be approved by the Control Authority, and the facility must submit a certification in accordance with 40 CFR §§433.12 (a) and (b) that the TOMP is being implemented at each routine monitoring period.

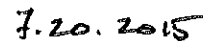
The City of Arkadelphia does not have approval from USEPA and the Arkansas Department of Environmental Quality (ADEQ) to implement their own industrial pretreatment program. Therefore, the Control Authority for the Danfoss facility is ADEQ. ADEQ has issued Danfoss the Arkansas Facility Identification Number 10-00102 for ease of matching submittals to the facility.

Danfoss is electing at this time to implement an ongoing TOMP in lieu of TTO monitoring. The initial certification is below, and a certification will be submitted with each required report due to ADEQ (i.e., semi-annual compliance reporting).

1.1. Certification Statement

"Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority."


Sean Kurtz, General Manager


Date

2.0 Inventory of Toxic Organic Chemicals

2.1. Chemicals in Use

In developing the TOMP, an analysis of the chemicals in use at the facility was made from a current orders list. The Safety Data Sheets (SDS) for each compound used in the process were used to determine which products contained chemicals on the TTO monitoring list from 40 CFR §433.11(e). Five products were found to contain one or more chemicals on the TTO list, they are listed in Table 1 below.

Table 1 –Products Containing TTO Chemicals

Material Identifier	Material Description	TTO-Listed Chemical	CAS No.
DST15459	Xylene One (1) Quart Can	ethylbenzene	100-41-4
DST18730	Paint Rustoleum Spray Can	ethylbenzene	100-41-4
DST8209	Paint Safety Yellow	ethylbenzene	100-41-4
		toluene	108-88-3
DST13201	Paint Compress GL ED Black Spray	ethylbenzene	100-41-4
DST15257	Paint Flat White	ethylbenzene	100-41-4
		toluene	108-88-3
		benzene	71-43-2

2.2. Sampling and Analysis of Wastewater

Samples of the effluent from the Danfoss facility have been taken periodically and analyzed for the TTO compounds listed in 40 CFR §433.11(e). No listed toxic organic compounds were found in the previous two analyses, taken December 17, 2014 and May 21, 2015. The laboratory reports are available in Appendix 1.

3.0 Controlling Regulated Toxic Organic Pollutants

Controls must be implemented to ensure products containing the regulated TTO-listed compounds do not reach sanitary sewer. The Danfoss facility controls the materials that contain regulated TTO-listed chemicals in the following manners, listed in Table 2 below.

Table 2 - Control Measures for TTO-listed Containing Products

Material Identifier	Material Description	Control Measures
DST15459	Xylene One (1) Quart Can	Kept in containment area Nothing is washed down drain to sanitary sewer No floor drains lead to sanitary sewer
DST18730	Paint Rustoleum Spray Can	Kept in cabinet in containment area Nothing is washed down drain to sanitary sewer No floor drains lead to sanitary sewer
DST8209	Paint Safety Yellow	Kept in cabinet in containment area Nothing is washed down drain to sanitary sewer No floor drains lead to sanitary sewer
DST13201	Paint Compress GL ED Black Spray	Kept in cabinet in containment area Nothing is washed down drain to sanitary sewer No floor drains lead to sanitary sewer
DST15257	Paint Flat White	Kept in cabinet in containment area Nothing is washed down drain to sanitary sewer No floor drains lead to sanitary sewer

4.0 Estimate of Approximate Quantities Discharged

The Danfoss facility does not allow the products that contain regulated TTO-listed chemicals to reach the sanitary sewer. Wastewater samples taken confirm that the controls in place at the Danfoss facility do not allow TTO-listed chemicals to be discharged to the City of Arkadelphia's Wastewater Treatment Plant.

Appendix 1

Danfoss, LLC
Effluent TTO Analyses



**SORRELLS RESEARCH
LABORATORY AND FIELD SERVICES**



CHEMISTS
ECOLOGISTS
CONSULTANTS
PLANNERS

8100 National Drive
Little Rock, Arkansas 72209

Phone 501-562-8139
Fax 501-562-7025
Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: January 13, 2015
Date Received : December 17, 2014

For: DANFOSS - SCROLL TECHNOLOGIES
ONE SCROLL DRIVE
ARKADELPHIA, AR 71923-8813

Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034

Sample From: EFFLUENT COMP 12/16-17/14 1000-1001

ANALYTE	RESULT	UNITS	METHOD
Biochemical oxygen demand	5.880	mg/Liter	5210 B
Total suspended solids	28.500	mg/Liter	2540D
Oil and grease - Gravimetric	<	3.000 mg/Liter	1664A
Phenolics, total	0.010	mg/Liter	420.1
Cyanide, total	<	0.010 mg/Liter	4500cn
Acrolein	<	50.000 ug/Liter	624
Acrylonitrile	<	20.000 ug/Liter	624
Benzene	<	10.000 ug/Liter	624
Bromodichloromethane	<	10.000 ug/Liter	624
Bromoform	<	10.000 ug/Liter	624
Bromomethane (Methyl bromide)	<	50.000 ug/Liter	624
Carbon tetrachloride	<	2.000 ug/Liter	624
Chlorobenzene	<	10.000 ug/Liter	624
Chloroethane	<	50.000 ug/Liter	624
Chloroform	<	10.000 ug/Liter	624
Chloroethylvinyl ether, 2-	<	10.000 ug/Liter	624
Chloromethane (Methyl chloride)	<	50.000 ug/Liter	624
Chlorodibromomethane	<	10.000 ug/Liter	624
Dichloroethane, 1,1-	<	10.000 ug/Liter	624
Dichloroethylene, cis-1,2-	<	10.000 ug/Liter	624
Dichloroethane, 1,2-	<	10.000 ug/Liter	624
Dichloroethylene, trans-1,2-	<	10.000 ug/Liter	624
Dichloroethylene, 1,1- (1,1-dichloroethene)	<	10.000 ug/Liter	624
Dichloropropane, 1,2-	<	10.000 ug/Liter	624
Dichloropropylene, cis-1,3-	<	10.000 ug/Liter	624
Dichloropropylene, trans-1,3-	<	10.000 ug/Liter	624
Ethylbenzene	<	10.000 ug/Liter	624
Methylene chloride	<	20.000 ug/Liter	624
Tetrachloroethane, 1, 1, 2, 2	<	10.000 ug/Liter	624
Tetrachloroethylene	<	10.000 ug/Liter	624
Toluene	<	10.000 ug/Liter	624
Trichloroethane, 1, 1, 1-	<	10.000 ug/Liter	624

Laboratory Number: 17733.0001



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Little Rock, Arkansas 72209

Phone 501-562-8139
Fax 501-562-7025
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LABORATORY ANALYSIS

Date of Report: January 13, 2015
Date Received : December 17, 2014

For: DANFOSS - SCROLL TECHNOLOGIES
ONE SCROLL DRIVE
ARKADELPHIA, AR 71923-8813

Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034

Sample From: EFFLUENT COMP 12/16-17/14 1000-1001

ANALYTE		RESULT	UNITS	METHOD
Trichloroethane, 1, 1, 2-	<	10.000	ug/Liter	624
Trichloroethylene	<	10.000	ug/Liter	624
Vinyl chloride	<	10.000	ug/Liter	624
Acenaphthene	<	10.000	ug/Liter	625mod
Acenaphthylene	<	10.000	ug/Liter	625mod
Anthracene	<	10.000	ug/Liter	625mod
Benzidine	<	50.000	ug/Liter	625mod
Benzo (a) anthracene	<	5.000	ug/Liter	625mod
Benzo (a) pyrene	<	5.000	ug/Liter	625mod
Benzo (b) fluoranthene	<	5.000	ug/Liter	625mod
Benzo (g,h,i) perylene	<	20.000	ug/Liter	625mod
Benzo (k) fluoranthene	<	5.000	ug/Liter	625mod
bis (2-chloroethoxy) methane	<	10.000	ug/Liter	625mod
bis (2-chloroethyl) ether	<	10.000	ug/Liter	625mod
bis (2-chloroisopropyl) ether	<	10.000	ug/Liter	625mod
bis (2-ethylhexyl) phthalate	<	10.000	ug/Liter	625mod
Bromophenyl phenyl ether, 4-	<	10.000	ug/Liter	625mod
Butylbenzyl phthalate	<	10.000	ug/Liter	625mod
Chloronaphthalene, 2-	<	10.000	ug/Liter	625mod
Chlorophenol, 2-	<	10.000	ug/Liter	625mod
Chlorophenyl phenyl ether, 4-	<	10.000	ug/Liter	625mod
Chrysene	<	5.000	ug/Liter	625mod
Dibenzo (a,h) anthracene	<	5.000	ug/Liter	625mod
Dichlorobenzene, 1,2-	<	10.000	ug/Liter	625mod
Dichlorobenzene, 1,3-	<	10.000	ug/Liter	625mod
Dichlorobenzene, 1,4-	<	10.000	ug/Liter	625mod
Dichlorobenzidine, 3,3'-	<	5.000	ug/Liter	625mod
Dichlorophenol, 2,4-	<	10.000	ug/Liter	625mod
Diethylphthalate	<	10.000	ug/Liter	625mod
Dimethylphenol, 2,4-	<	50.000	ug/Liter	625mod
Dimethylphthalate	<	10.000	ug/Liter	625mod
Di-n-butyl phthalate	<	10.000	ug/Liter	625mod

Laboratory Number: 17733.0001



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Little Rock, Arkansas 72209

Phone 501-562-8139
Fax 501-562-7025
Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: January 13, 2015
Date Received : December 17, 2014

For: DANFOSS - SCROLL TECHNOLOGIES

ONE SCROLL DRIVE

ARKADELPHIA, AR 71923-8813

Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034

Sample From: EFFLUENT COMP 12/16-17/14 1000-1001

ANALYTE		RESULT	UNITS	METHOD
Dinitro-o-cresol, 4, 6-	<	10.000	ug/Liter	625mod
Dinitrophenol, 2, 4-	<	50.000	ug/Liter	625mod
Dinitrotoluene, 2, 4-	<	10.000	ug/Liter	625mod
Dinitrotoluene, 2, 6-	<	10.000	ug/Liter	625mod
Di-n-octyl phthalate	<	10.000	ug/Liter	625mod
Diphenylhydrazine, 1, 2-	<	20.000	ug/Liter	625mod
Fluoranthene	<	10.000	ug/Liter	625mod
Fluorene	<	10.000	ug/Liter	625mod
Hexachlorobenzene	<	5.000	ug/Liter	625mod
Hexachlorobutadiene	<	10.000	ug/Liter	625mod
Hexachlorocyclopentadiene	<	10.000	ug/Liter	625mod
Hexachloroethane	<	20.000	ug/Liter	625mod
Indeno (1, 2, 3-Cd) pyrene	<	5.000	ug/Liter	625mod
Isophorone	<	10.000	ug/Liter	625mod
Naphthalene	<	10.000	ug/Liter	625mod
Nitrobenzene	<	10.000	ug/Liter	625mod
Nitrophenol, 2-	<	20.000	ug/Liter	625mod
Nitrophenol, 4-	<	50.000	ug/Liter	625mod
N-Nitrosodimethylamine	<	50.000	ug/Liter	625mod
N-nitrosodi-n-propylamine	<	20.000	ug/Liter	625mod
N-Nitrosodiphenylamine	<	20.000	ug/Liter	625mod
p-Chloro-m-cresol	<	10.000	ug/Liter	625mod
Pentachlorophenol	<	5.000	ug/Liter	625mod
Phenanthrene	<	10.000	ug/Liter	625mod
Phenol	<	10.000	ug/Liter	625mod
Pyrene	<	10.000	ug/Liter	625mod
Trichlorobenzene, 1, 2, 4-	<	10.000	ug/Liter	625mod
Trichlorophenol, 2, 4, 6-	<	10.000	ug/Liter	625mod
Aldrin	<	0.010	ug/Liter	608
BHC, Alpha	<	0.050	ug/Liter	608
BHC, Beta	<	0.050	ug/Liter	608
BHC, Delta	<	0.050	ug/Liter	608

Laboratory Number: 17733.0001



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Little Rock, Arkansas 72209

Phone 501-562-8139
Fax 501-562-7025
Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: January 13, 2015
Date Received : December 17, 2014

For: DANFOSS - SCROLL TECHNOLOGIES
ONE SCROLL DRIVE
ARKADELPHIA, AR 71923-8813

Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034

Sample From: EFFLUENT COMP 12/16-17/14 1000-1001

ANALYTE		RESULT	UNITS	METHOD
BHC, Gamma (Lindane)	<	0.050	ug/Liter	608
Chlordane	<	0.200	ug/Liter	608
4, 4'-DDD	<	0.100	ug/Liter	608
4, 4'-DDE	<	0.100	ug/Liter	608
4, 4'-DDT	<	0.020	ug/Liter	608
Dieldrin	<	0.020	ug/Liter	608
Endosulfan, Alpha-	<	0.020	ug/Liter	608
Endosulfan, Beta-	<	0.020	ug/Liter	608
Endosulfan sulfate	<	0.100	ug/Liter	608
Endrin	<	0.020	ug/Liter	608
Endrin aldehyde	<	0.100	ug/Liter	608
Heptachlor	<	0.010	ug/Liter	608
Heptachlor epoxide (beta)	<	0.010	ug/Liter	608
2, 3, 7, 8- TCDD	<	10.000	ug/Liter	625mod
Toxaphene	<	0.300	ug/Liter	608
PCB-1016	<	0.200	ug/Liter	608
PCB-1221	<	0.200	ug/Liter	608
PCB-1232	<	0.200	ug/Liter	608
PCB-1242	=	0.000	n/a	608
PCB-1248	<	0.200	ug/Liter	608
PCB-1254	=	0.000	n/a	8270Da
PCB-1260	<	0.200	ug/Liter	608
TTO, Total Toxic Organics	<	0.020	mg/Liter	Calc.
Extraction, Base-Neutrals, Acids	=	1.000	ea	3510
Extraction, Pesticides, PCB's	=	1.000	ea	3510
pH <-H+>		7.380	units	4500 B

Laboratory Number: 17733.0001



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PLANNERS

8100 National Drive
Little Rock, Arkansas 72209

Phone 501-562-8139
Fax 501-562-7025
Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: January 13, 2015
Date Received : December 17, 2014

For: DANFOSS - SCROLL TECHNOLOGIES
ONE SCROLL DRIVE
ARKADELPHIA, AR 71923-8813

Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034

Sample From: EFFLUENT COMP 12/16-17/14 1000-1001

ANALYTE	RESULT UNITS	METHOD
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STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

CLIENT on 12/17/14 at 10:00

Analysis by :

SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E.

Includes 10 % replication and 10 % recovery studies by random selection.

Instruments maintained and calibrated and records kept.

See Attached.

Copies to:

MR. CHUCK JONES

ENV. HEALTH & SAFETY MGR

ONE SCROLL DRIVE

ARKADELPHIA, AR 71923-

Laboratory Number: 17733.0001 TKR Reviewed By: K. E. Sorrells, M.S. []



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CHEMISTS
ECOLOGISTS
CONSULTANTS
PLANNERS

8100 National Drive
Little Rock, Arkansas 72209

Phone 501-562-8139
Fax 501-562-7025
Toll Free 1-800-331-8139

QUALITY ASSURANCE

December 17, 2014

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Arkansas Analytical Inc. pH <-H+>	QA OF EAS	/ / 12/17/14	0 1350	/ / 12/17/14	0 1350	0.00 0.00	0.0 0.0	0 1

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up
Sample preservation and laboratory analysis conducted according to EPA
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.* QA PLAN filed with
ADPC&E. Include replication.

KES = K. E. Sorrells
JBS = James B. Sorrells
CAS = Cecil A. Sorrells
MKM = Mark Kyle McKenzie

KESII = K. E. Sorrells, II
TJS = Todd J. Sanders
JHD = J. Henry Dodson

Laboratory Number: 17733.0001 TKR

30 December 2014



Chuck Jones
 Danfoss - Scroll Technologies
 1 Scroll Drive
 Arkadelphia, AR 71923-8813
 Project: Effluent Sample
 Project Number: 17733.0001
 Date Received: 17-Dec-14 16:35

QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: A412252 (Water)

Prepared: 17-Dec-14 11:54 By: AP -- Analyzed: 17-Dec-14 11:54 By: AP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Phenolics	<0.005 mg/L	94.7% / NA	97.8% / 102%		4.11%	

Wet Chemistry -- Batch: A412270 (Water)

Prepared: 19-Dec-14 08:00 By: WL -- Analyzed: 19-Dec-14 08:00 By: WL

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.0 mg/L	89.0% / 95.0%	NA / NA		6.52%	

Volatiles -- Batch: A412281 (Water)

Prepared: 19-Dec-14 12:11 By: CT -- Analyzed: 19-Dec-14 18:43 By: ct

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,1,1-Trichloroethane	<10.0 ug/L	98.0% / NA	106% / 108%		1.47%	
1,1,2,2-Tetrachloroethane	<10.0 ug/L	72.6% / NA	100% / 95.1%		5.38%	
1,1,2-Trichloroethane	<10.0 ug/L	91.4% / NA	98.4% / 102%		3.20%	
1,1-Dichloroethane	<10.0 ug/L	98.8% / NA	105% / 105%		0.214%	
1,1-Dichloroethene	<10.0 ug/L	90.2% / NA	101% / 97.3%		3.93%	
1,2-Dichloroethane	<10.0 ug/L	96.6% / NA	103% / 102%		1.49%	
1,2-Dichloropropane	<10.0 ug/L	98.5% / NA	103% / 105%		1.83%	
2-Chloroethyl vinyl ether	<10.0 ug/L	100% / NA	103% / 108%		4.06%	
Acrolein	<50.0 ug/L	84.2% / NA	MBI / MBI		NA	E5, MBI
Acrylonitrile	<20.0 ug/L	93.0% / NA	93.0% / 96.1%		3.35%	
Benzene	<10.0 ug/L	95.9% / NA	108% / 103%		4.05%	
Bromodichloromethane	<10.0 ug/L	99.1% / NA	95.3% / 106%		10.7%	
Bromoform	<10.0 ug/L	94.5% / NA	104% / 101%		2.91%	
Bromomethane	<50.0 ug/L	79.6% / NA	75.3% / 77.6%		3.03%	
Carbon tetrachloride	<2.00 ug/L	91.9% / NA	103% / 98.3%		4.69%	
Chlorobenzene	<10.0 ug/L	87.4% / NA	93.1% / 94.5%		1.53%	
Chlorodibromomethane	<10.0 ug/L	87.4% / NA	98.8% / 96.8%		2.15%	
Chloroethane	<50.0 ug/L	70.0% / NA	76.7% / 75.0%		2.27%	
Chloroform	<10.0 ug/L	95.8% / NA	105% / 97.7%		6.67%	
Chloromethane	<50.0 ug/L	94.5% / NA	95.0% / 96.6%		1.75%	
cis-1,3-Dichloropropene	<10.0 ug/L	97.0% / NA	97.0% / 102%		4.59%	
Ethylbenzene	<10.0 ug/L	94.4% / NA	101% / 100%		1.32%	
Methylene chloride	<20.0 ug/L	84.7% / NA	96.2% / 96.7%		0.498%	
Tetrachloroethene	<10.0 ug/L	97.3% / NA	98.8% / 105%		6.24%	
Toluene	<10.0 ug/L	93.9% / NA	99.3% / 103%		3.88%	
trans-1,2-Dichloroethene	<10.0 ug/L	94.2% / NA	98.0% / 102%		4.19%	
trans-1,3-Dichloropropene	<10.0 ug/L	85.3% / NA	94.2% / 97.2%		3.15%	
Trichloroethene	<10.0 ug/L	98.7% / NA	93.8% / 104%		10.7%	D
Vinyl chloride	<10.0 ug/L	95.8% / NA	101% / 101%		0.277%	
1,2-Dichloroethane-d4 [surr]	96.5 %	96.0% / NA	96.3% / 95.1%		NA	
4-Bromofluorobenzene [surr]	109 %	101% / NA	109% / 101%		NA	
Toluene-d8 [surr]	90.2 %	95.3% / NA	93.8% / 91.8%		NA	

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Project: Effluent Sample
Project Number: 17733.0001
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QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: A412300 (Water)

Prepared: 18-Dec-14 15:45 By: KP -- Analyzed: 18-Dec-14 15:45 By: KP

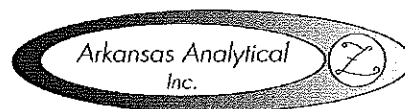
<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
BOD-5	<2.00 mg/L	102% / 103%	NA / NA		1.48%	

Wet Chemistry -- Batch: A412311 (Water)

Prepared: 22-Dec-14 11:51 By: WL -- Analyzed: 23-Dec-14 15:05 By: WL

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Oil and Grease	<2.5 mg/L	83.7% / 83.4%	80.8% / NA		0.297%	

30 December 2014



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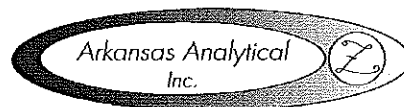
QUALITY CONTROL RESULTS

Base/Neutral Compounds -- Batch: A412312 (Water)

Prepared: 22-Dec-14 12:04 By: TB -- Analyzed: 22-Dec-14 14:10 By: TB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,2,4-Trichlorobenzene	<10.0 ug/L	57.8% / NA	54.0% / 49.9%		7.92%	
1,2-Dichlorobenzene	<10.0 ug/L	63.5% / NA	52.4% / 54.1%		3.24%	
1,2-Diphenyl Hydrazine	<20.0 ug/L	76.0% / NA	76.8% / 77.9%		1.44%	
1,3-Dichlorobenzene	<10.0 ug/L	60.2% / NA	51.0% / 51.1%		0.264%	
1,4-Dichlorobenzene	<10.0 ug/L	60.1% / NA	50.2% / 52.8%		5.02%	
2,3,7,8-TCDD Screen	<10.0 ug/L	NA / NA	NA / NA		NA	
2,4,6-Trichlorophenol	<10.0 ug/L	59.9% / NA	69.6% / 69.6%		0.0719%	
2,4-Dichlorophenol	<10.0 ug/L	78.0% / NA	75.7% / 72.8%		3.84%	
2,4-Dimethylphenol	<10.0 ug/L	77.9% / NA	72.4% / 64.8%		11.0%	D
2,4-Dinitrophenol	<50.0 ug/L	68.0% / NA	73.7% / 70.4%		4.53%	
2,4-Dinitrotoluene	<10.0 ug/L	81.1% / NA	83.7% / 81.6%		2.55%	
2,6-Dinitrotoluene	<10.0 ug/L	73.8% / NA	77.3% / 81.6%		5.49%	
2-Chloronaphthalene	<10.0 ug/L	65.5% / NA	63.8% / 59.1%		7.69%	
2-Chlorophenol	<10.0 ug/L	79.5% / NA	64.8% / 62.5%		3.56%	
2-Nitrophenol	<20.0 ug/L	73.7% / NA	59.8% / 56.5%		5.80%	
3,3'-Dichlorobenzidine	<5.00 ug/L	NA / NA	NA / NA		8.78%	D, E-01
4,6-Dinitro-2-methylphenol	<10.0 ug/L	77.2% / NA	76.8% / 76.6%		0.372%	
4-Bromophenyl-phenylether	<10.0 ug/L	80.2% / NA	83.0% / 81.7%		1.68%	
4-Chloro-3-methylphenol	<10.0 ug/L	81.9% / NA	83.4% / 85.3%		2.32%	
4-Chlorophenyl-phenylether	<10.0 ug/L	65.8% / NA	56.1% / 56.0%		0.214%	
4-Nitrophenol	<50.0 ug/L	54.4% / NA	52.7% / 52.4%		0.634%	
Acenaphthene	<10.0 ug/L	69.8% / NA	71.7% / 67.8%		5.66%	
Acenaphthylene	<10.0 ug/L	66.8% / NA	70.5% / 68.3%		3.13%	
Anthracene	<10.0 ug/L	83.9% / NA	78.4% / 79.5%		1.35%	
Benzidine	<50.0 ug/L	NA / NA	NA / NA		6.46%	
Benzo (a) anthracene	<5.00 ug/L	68.4% / NA	88.8% / 80.4%		9.91%	D
Benzo[a]pyrene	<5.00 ug/L	89.6% / NA	81.4% / 92.8%		13.1%	
Benzo[b]fluoranthene	<10.0 ug/L	82.9% / NA	78.5% / 83.7%		6.51%	
Benzo[g,h,i]perylene	<20.0 ug/L	80.9% / NA	85.8% / 94.0%		9.14%	
Benzo[k]fluoranthene	<5.00 ug/L	88.5% / NA	88.1% / 96.8%		9.44%	
Bis(2-chloroethoxy)methane	<10.0 ug/L	81.5% / NA	64.7% / 56.7%		13.2%	
Bis(2-chloroethyl)ether	<10.0 ug/L	80.5% / NA	60.5% / 67.0%		10.3%	
Bis(2-chloroisopropyl)ether	<10.0 ug/L	79.0% / NA	63.8% / 70.0%		9.20%	
Bis(2-ethylhexyl)phthalate	<10.0 ug/L	85.6% / NA	88.6% / 87.8%		0.794%	
Butylbenzylphthalate	<10.0 ug/L	85.8% / NA	85.9% / 85.0%		0.994%	
Chrysene	<5.00 ug/L	68.9% / NA	65.2% / 70.6%		7.95%	
Dibenz[a,h]anthracene	<5.00 ug/L	44.2% / NA	44.7% / 46.5%		3.84%	
Diethylphthalate	<10.0 ug/L	80.5% / NA	87.4% / 85.2%		2.58%	
Dimethylphthalate	<10.0 ug/L	80.0% / NA	83.0% / 83.1%		0.0596%	
Di-n-butylphthalate	<10.0 ug/L	82.2% / NA	76.3% / 76.9%		0.803%	
Di-n-octylphthalate	<10.0 ug/L	84.8% / NA	77.6% / 79.7%		2.60%	
Fluorene	<10.0 ug/L	77.4% / NA	73.4% / 72.7%		0.985%	
Hexachlorobenzene	<5.00 ug/L	80.8% / NA	78.1% / 74.0%		5.34%	
Hexachlorobutadiene	<10.0 ug/L	59.2% / NA	49.8% / 47.4%		4.89%	
Hexachlorocyclopentadiene	<10.0 ug/L	53.0% / NA	50.7% / 46.2%		9.28%	
Hexachloroethane	<20.0 ug/L	51.2% / NA	54.3% / 54.8%		0.994%	
Indeno[1,2,3-cd]pyrene	<5.00 ug/L	94.1% / NA	95.6% / 106%		10.2%	D
Isophorone	<10.0 ug/L	82.0% / NA	62.6% / 56.2%		10.6%	

30 December 2014



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1 Scroll Drive
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Project: Effluent Sample
Project Number: 17733.0001
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QUALITY CONTROL RESULTS

Base/Neutral Compounds -- Batch: A412312 (Water)

Prepared: 22-Dec-14 12:04 By: TB -- Analyzed: 22-Dec-14 14:10 By: TB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Naphthalene	<10.0 ug/L	66.2% / NA	60.5% / 55.8%		8.10%	
Nitrobenzene	<10.0 ug/L	78.9% / NA	64.1% / 59.5%		7.49%	
N-Nitrosodimethylamine	<50.0 ug/L	57.5% / NA	40.7% / 44.4%		8.83%	
N-Nitroso-di-n-propylamine	<20.0 ug/L	86.0% / NA	62.4% / 69.3%		10.6%	
N-Nitrosodiphenylamine/diphenylamine	<20.0 ug/L	83.1% / NA	85.6% / 86.8%		1.31%	
Pentachlorophenol	<5.00 ug/L	86.8% / NA	86.1% / 82.7%		4.07%	
Phenanthrene	<10.0 ug/L	83.9% / NA	85.4% / 85.4%		0.0351%	
Phenol	<10.0 ug/L	46.6% / NA	42.3% / 41.5%		1.92%	
Pyrene	<10.0 ug/L	96.7% / NA	88.4% / 91.2%		3.08%	
2,4,6-Tribromophenol [surr]	99.0 %	90.1% / NA	97.9% / 94.3%		NA	
2-Fluorobiphenyl [surr]	76.3 %	66.0% / NA	61.0% / 58.6%		NA	
2-Fluorophenol [surr]	59.8 %	56.9% / NA	31.7% / 27.8%		NA	
Nitrobenzene-d5 [surr]	83.3 %	80.2% / NA	61.4% / 63.0%		NA	
Phenol-d5 [surr]	38.3 %	40.3% / NA	33.3% / 33.3%		NA	
Terphenyl-d14 [surr]	110 %	103% / NA	103% / 108%		NA	

Wet Chemistry -- Batch: A412326 (Water)

Prepared: 22-Dec-14 08:45 By: KP -- Analyzed: 23-Dec-14 13:08 By: KP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Cyanide (total)	<0.010 mg/L	93.0% / 93.0%	93.7% / NA		0.00%	

Pesticides/PCBs -- Batch: A412349 (Water)

Prepared: 22-Dec-14 13:08 By: MB -- Analyzed: 22-Dec-14 17:44 By: MB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
4,4'-DDD	<0.100 ug/L	102% / 90.0%	53.3% / NA		12.4%	E-01
4,4'-DDE	<0.100 ug/L	77.2% / 66.1%	49.1% / NA		15.6%	
4,4'-DDT	<0.020 ug/L	95.3% / 84.8%	48.5% / NA		11.7%	
Aldrin	<0.010 ug/L	48.2% / 39.5%	49.6% / NA		19.8%	
alpha-BHC	<0.050 ug/L	70.6% / 62.4%	56.6% / NA		12.3%	
beta-BHC	<0.050 ug/L	86.8% / 71.6%	29.4% / NA		19.3%	
delta-BHC	<0.050 ug/L	93.5% / 91.3%	MBI / NA		2.39%	E-01, MBI
Dieldrin	<0.020 ug/L	77.9% / 68.4%	52.3% / NA		12.9%	
Endosulfan I	<0.010 ug/L	62.3% / 53.5%	44.3% / NA		15.1%	
Endosulfan II	<0.020 ug/L	93.3% / 83.2%	46.7% / NA		11.5%	
Endosulfan sulfate	<0.100 ug/L	85.3% / 75.9%	37.6% / NA		11.6%	
Endrin	<0.020 ug/L	81.3% / 70.2%	55.1% / NA		14.6%	
Endrin aldehyde	<0.100 ug/L	124% / 87.2%	51.8% / NA		34.8%	
gamma-BHC (Lindane)	<0.050 ug/L	70.9% / 63.4%	MBI / NA		11.2%	MBI
Heptachlor	<0.010 ug/L	65.9% / 77.9%	82.2% / NA		16.7%	
Heptachlor epoxide	<0.010 ug/L	60.4% / 60.5%	45.6% / NA		0.167%	
DCBP [surr]	95.3 %	89.0% / 80.2%	57.0% / NA		NA	
TCMX [surr]	59.2 %	57.7% / 53.7%	38.8% / NA		NA	

30 December 2014



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1 Scroll Drive
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QUALIFIER(S)

- *D: RPD Value Does Not Meet Laboratory Acceptance Criteria
- *E-01: Estimated Result; This Analyte Failed "High" in the CCV; If the sample is non-detect for this analyte, the CCV demonstrated the analyte would have been detected were it present.
- *E3: Estimated Result Due to Incorrect Sample Preservation or Container
- *E5: Estimated Result Due to Quality Control Failure
- *EDL: Elevated Detection Limit Due to one or more of the following: Sample Matrix, Sample Dilution, or Limited Sample Volume
- *MBI: Masked By Interference

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

Reviewed by: *Norma James / Teresa Coins*
Norma James and/or Teresa Coins
Technical Director and/or QA Officer



**SORRELLS RESEARCH
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Little Rock, Arkansas 72209

Phone 501-562-8139
Fax 501-562-7025
Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: June 17, 2015
Date Received : May 21, 2015

For: DANFOSS - SCROLL TECHNOLOGIES
ONE SCROLL DRIVE
ARCADELPHIA, AR 71923-8813

Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034

Sample From: EFFLUENT COMP 05/21/15 0700-1000 / GRAB 1110

ANALYTE		RESULT	UNITS	METHOD
Acrolein	*	0.000	see report	
Acrylonitrile	*	0.000		
Benzene	*	0.000		
Bromodichloromethane	*	0.000		
Bromoform	*	0.000		
Bromomethane (Methyl bromide)	*	0.000		
Carbon tetrachloride	*	0.000		
Chlorobenzene	*	0.000		
Chloroethane	*	0.000		
Chloroform	*	0.000		
Chloroethylvinyl ether, 2-	*	0.000		
Chloromethane (Methyl chloride)	*	0.000		
Chlorodibromomethane	*	0.000		
Dichloroethane, 1,1-	*	0.000		
Dichloroethylene, cis-1,2-	*	0.000		
Dichloroethane, 1,2-	*	0.000		
Dichloroethylene, trans-1,2-	*	0.000		
Dichloroethylene, 1,1- (1,1-dichloroethene)	*	0.000		
Dichloropropane, 1,2-	*	0.000		
Dichloropropylene, cis-1,3-	*	0.000		
Dichloropropylene, trans-1,3-	*	0.000		
Ethylbenzene	*	0.000		
Methylene chloride	*	0.000		
Tetrachloroethane, 1, 1, 2, 2	*	0.000		
Tetrachloroethylene	*	0.000		
Toluene	*	0.000		
Trichloroethane, 1, 1, 1-	*	0.000		
Trichloroethane, 1, 1, 2-	*	0.000		
Trichloroethylene	*	0.000		
Vinyl chloride	*	0.000		
Acenaphthene	*	0.000		
Acenaphthylene	*	0.000		

Laboratory Number: 18169.0001



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LABORATORY ANALYSIS

Date of Report: June 17, 2015
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For: DANFOSS - SCROLL TECHNOLOGIES
ONE SCROLL DRIVE
ARKADELPHIA, AR 71923-8813
Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034
Sample From: EFFLUENT COMP 05/21/15 0700-1000 / GRAB 1110

ANALYTE		RESULT	UNITS	METHOD
Anthracene	*	0.000		
Benzidine	*	0.000		
Benzo (a) anthracene	*	0.000		
Benzo (a) pyrene	*	0.000		
Benzo (b) fluoranthene	*	0.000		
Benzo (g,h,i) perylene	*	0.000		
Benzo (k) fluoranthene	*	0.000		
bis (2-chloroethoxy) methane	*	0.000		
bis (2-chloroethyl) ether	*	0.000		
bis (2-chloroisopropyl) ether	*	0.000		
bis (2-ethylhexyl) phthalate	*	0.000		
Bromophenyl phenyl ether, 4-	*	0.000		
Butylbenzyl phthalate	*	0.000		
Chloronaphthalene, 2-	*	0.000		
Chlorophenol, 2-	*	0.000		
Chlorophenyl phenyl ether, 4-	*	0.000		
Chrysene	*	0.000		
Dibenzo (a,h) anthracene	*	0.000		
Dichlorobenzene, 1,2-	*	0.000		
Dichlorobenzene, 1,3-	*	0.000		
Dichlorobenzene, 1,4-	*	0.000		
Dichlorobenzidine, 3,3-	*	0.000		
Dichlorophenol, 2,4-	*	0.000		
Diethylphthalate	*	0.000		
Dimethylphenol, 2,4-	*	0.000		
Dimethylphthalate	*	0.000		
Di-n-butyl phthalate	*	0.000		
Dinitro-o-cresol, 4,6-	*	0.000		
Dinitrophenol, 2,4-	*	0.000		
Dinitrotoluene, 2,4-	*	0.000		
Dinitrotoluene, 2,6-	*	0.000		
Di-n-octyl phthalate	*	0.000		

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LABORATORY ANALYSIS

Date of Report: June 17, 2015
Date Received : May 21, 2015

For: DANFOSS - SCROLL TECHNOLOGIES
ONE SCROLL DRIVE
ARCADELPHIA, AR 71923-8813

Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034

Sample From: EFFLUENT COMP 05/21/15 0700-1000 / GRAB 1110

ANALYTE		RESULT	UNITS	METHOD
Diphenylhydrazine, 1,2-	*	0.000		
Fluoranthene	*	0.000		
Fluorene	*	0.000		
Hexachlorobenzene	*	0.000		
Hexachlorobutadiene	*	0.000		
Hexachlorocyclopentadiene	*	0.000		
Hexachloroethane	*	0.000		
Indeno (1,2,3-Cd) pyrene	*	0.000		
Isophorone	*	0.000		
Naphthalene	*	0.000		
Nitrobenzene	*	0.000		
Nitrophenol, 2-	*	0.000		
Nitrophenol, 4-	*	0.000		
N-Nitrosodimethylamine	*	0.000		
N-nitrosodi-n-propylamine	*	0.000		
N-Nitrosodiphenylamine	*	0.000		
p-Chloro-m-cresol	*	0.000		
Pentachlorophenol	*	0.000		
Phenanthrene	*	0.000		
Phenol	*	0.000		
Pyrene	*	0.000		
Trichlorobenzene, 1, 2, 4-	*	0.000		
Trichlorophenol, 2, 4, 6-	*	0.000		
Aldrin	*	0.000		
BHC, Alpha	*	0.000		
BHC, Beta	*	0.000		
BHC, Delta	*	0.000		
BHC, Gamma (Lindane)	*	0.000		
Chlordane	*	0.000		
4, 4'-DDD	*	0.000		
4, 4'-DDE	*	0.000		
4, 4'-DDT	*	0.000		

Laboratory Number: 18169.0001



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LABORATORY ANALYSIS

Date of Report: June 17, 2015
Date Received : May 21, 2015

For: DANFOSS - SCROLL TECHNOLOGIES
ONE SCROLL DRIVE
ARKADELPHIA, AR 71923-8813

Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034

Sample From: EFFLUENT COMP 05/21/15 0700-1000 / GRAB 1110

ANALYTE		RESULT	UNITS	METHOD
Dieldrin	*	0.000		
Endosulfan, Alpha-	*	0.000		
Endosulfan, Beta-	*	0.000		
Endosulfan sulfate	*	0.000		
Endrin	*	0.000		
Endrin aldehyde	*	0.000		
Heptachlor	*	0.000		
Heptachlor epoxide (beta)	*	0.000		
2, 3, 7, 8- TCDD	*	0.000		
Toxaphene	*	0.000		
PCB-1016	*	0.000		
PCB-1221	*	0.000		
PCB-1232	*	0.000		
PCB-1242	*	0.000		
PCB-1248	*	0.000		
PCB-1254	*	0.000		
PCB-1260	*	0.000		
TTO, Total Toxic Organics	*	0.000		
Extraction, Base-Neutrals, Acids	=	1.000	ea	3510
Extraction, Pesticides, PCB's	=	1.000	ea	3510
Biochemical oxygen demand		113.000	mg/Liter	5210 B
Total suspended solids		62.400	mg/Liter	2540D
Oil and grease - Gravimetric		13.000	mg/Liter	1664
Cyanide, total	<	0.010	mg/Liter	4500CN
pH (-H+)		7.250	units	4500 B
Temperature		23.000	.C	2550 B
Arsenic, As	<	0.011	mg/Liter	200.7
Cadmium, Cd	<	0.520	ug/Liter	200.7
Chromium, Cr	<	0.011	mg/Liter	200.7
Copper, Cu		0.030	mg/Liter	200.7
Lead, Pb	<	0.016	mg/Liter	200.7
Manganese, Mn		2.000	mg/Liter	200.7

Laboratory Number: 18169.0001



**SORRELLS RESEARCH
LABORATORY AND FIELD SERVICES**



CHEMISTS
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PLANNERS

8100 National Drive
Little Rock, Arkansas 72209

Phone 501-562-8139
Fax 501-562-7025
Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: June 17, 2015
Date Received : May 21, 2015

For: DANFOSS - SCROLL TECHNOLOGIES
ONE SCROLL DRIVE
ARKADELPHIA, AR 71923-8813

Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034
Sample From: EFFLUENT COMP 05/21/15 0700-1000 / GRAB 1110

ANALYTE		RESULT UNITS	METHOD
Nickel, Ni		0.128 mg/Liter	200.7
Silver, Ag	<	0.021 mg/Liter	200.7
Zinc, Zn		0.055 mg/Liter	200.7
Metals, Digestion for	=	1.000 ea sample	3030 D

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

CLIENT on 05/21/15 at 11:15

Analysis by :

ALL TESTS PERFORMED BY ARKANSAS ANALYTICAL INC., EXCEPT WHERE NOTED BY ()

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E.

Includes 10 % replication and 10 % recovery studies by random selection.

Instruments maintained and calibrated and records kept.

See Attached.

Copies to:

MR. CHUCK JONES
ENV. HEALTH & SAFETY MGR

ONE SCROLL DRIVE
ARKADELPHIA, AR 71923-

Laboratory Number: 18169.0001 TKR Reviewed By: K. E. Sorrells, M.S. []



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QUALITY ASSURANCE

May 21, 2015

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Arkansas Analytical Inc.	QA OF	/ /	0	/ /	0	0.00	0.0	0
*pH <-H+>	RP	05/21/15	1110	05/21/15	1115	0.00	0.0	1
*Temperature	RP	05/21/15	1110	05/21/15	1115	0.00	0.0	1

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up
Sample preservation and laboratory analysis conducted according to EPA
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.* QA PLAN filed with
ADPC&E. Include replication.

KES = K. E. Sorrells
JBS = James B. Sorrells
CAS = Cecil A. Sorrells
MKM = Mark Kyle McKenzie

KESII = K. E. Sorrells, II
TJS = Todd J. Sanders
JHD = J. Henry Dodson

Laboratory Number: 18169.0001 TKR



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Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: June 17, 2015
Date Received : May 21, 2015

For: DANFOSS - SCROLL TECHNOLOGIES
ONE SCROLL DRIVE
ARKADELPHIA, AR 71923-8813

Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034

Sample From: WASH TANK / GRAB 05/21/15 1110-1115

ANALYTE		RESULT	UNITS	METHOD
Acrolein	*	0.000	see report	
Acrylonitrile	*	0.000		
Benzene	*	0.000		
Bromodichloromethane	*	0.000		
Bromoform	*	0.000		
Bromomethane (Methyl bromide)	*	0.000		
Carbon tetrachloride	*	0.000		
Chlorobenzene	*	0.000		
Chloroethane	*	0.000		
Chloroform	*	0.000		
Chloroethylvinyl ether, 2-	*	0.000		
Chloromethane (Methyl chloride)	*	0.000		
Chlorodibromomethane	*	0.000		
Dichloroethane, 1,1-	*	0.000		
Dichloroethylene, cis-1,2-	*	0.000		
Dichloroethane, 1,2-	*	0.000		
Dichloroethylene, trans-1,2-	*	0.000		
Dichloroethylene, 1,1- (1,1-dichloroethene)	*	0.000		
Dichloropropane, 1,2-	*	0.000		
Dichloropropylene, cis-1,3-	*	0.000		
Dichloropropylene, trans-1,3-	*	0.000		
Ethylbenzene	*	0.000		
Methylene chloride	*	0.000		
Tetrachloroethane, 1, 1, 2, 2	*	0.000		
Tetrachloroethylene	*	0.000		
Toluene	*	0.000		
Trichloroethane, 1, 1, 1-	*	0.000		
Trichloroethane, 1, 1, 2-	*	0.000		
Trichloroethylene	*	0.000		
Vinyl chloride	*	0.000		
Acenaphthene	*	0.000		
Acenaphthylene	*	0.000		

Laboratory Number: 18169.0002



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ARKADELPHIA, AR 71923-8813

Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034

Sample From: WASH TANK / GRAB 05/21/15 1110-1115

ANALYTE		RESULT	UNITS	METHOD
Anthracene	*	0.000		
Benzidine	*	0.000		
Benzo (a) anthracene	*	0.000		
Benzo (a) pyrene	*	0.000		
Benzo (b) fluoranthene	*	0.000		
Benzo (g,h,i) perylene	*	0.000		
Benzo (k) fluoranthene	*	0.000		
bis (2-chloroethoxy) methane	*	0.000		
bis (2-chloroethyl) ether	*	0.000		
bis (2-chloroisopropyl) ether	*	0.000		
bis (2-ethylhexyl) phthalate	*	0.000		
Bromophenyl phenyl ether, 4-	*	0.000		
Butylbenzyl phthalate	*	0.000		
Chloronaphthalene, 2-	*	0.000		
Chlorophenol, 2-	*	0.000		
Chlorophenyl phenyl ether, 4-	*	0.000		
Chrysene	*	0.000		
Dibenzo (a,h) anthracene	*	0.000		
Dichlorobenzene, 1,2-	*	0.000		
Dichlorobenzene, 1,3-	*	0.000		
Dichlorobenzene, 1,4-	*	0.000		
Dichlorobenzidine, 3,3-	*	0.000		
Dichlorophenol, 2,4-	*	0.000		
Diethylphthalate	*	0.000		
Dimethylphenol, 2,4-	*	0.000		
Dimethylphthalate	*	0.000		
Di-n-butyl phthalate	*	0.000		
Dinitro-o-cresol, 4,6-	*	0.000		
Dinitrophenol, 2,4-	*	0.000		
Dinitrotoluene, 2,4-	*	0.000		
Dinitrotoluene, 2,6-	*	0.000		
Di-n-octyl phthalate	*	0.000		

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ARKADELPHIA, AR 71923-8813

Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034

Sample From: WASH TANK / GRAB 05/21/15 1110-1115

ANALYTE		RESULT	UNITS	METHOD
Diphenylhydrazine, 1,2-	*	0.000		
Fluoranthene	*	0.000		
Fluorene	*	0.000		
Hexachlorobenzene	*	0.000		
Hexachlorobutadiene	*	0.000		
Hexachlorocyclopentadiene	*	0.000		
Hexachloroethane	*	0.000		
Indeno (1,2,3-Cd) pyrene	*	0.000		
Isophorone	*	0.000		
Naphthalene	*	0.000		
Nitrobenzene	*	0.000		
Nitrophenol, 2-	*	0.000		
Nitrophenol, 4-	*	0.000		
N-Nitrosodimethylamine	*	0.000		
N-nitrosodi-n-propylamine	*	0.000		
N-Nitrosodiphenylamine	*	0.000		
p-Chloro-m-cresol	*	0.000		
Pentachlorophenol	*	0.000		
Phenanthrene	*	0.000		
Phenol	*	0.000		
Pyrene	*	0.000		
Trichlorobenzene, 1, 2, 4-	*	0.000		
Trichlorophenol, 2, 4, 6-	*	0.000		
Aldrin	*	0.000		
BHC, Alpha	*	0.000		
BHC, Beta	*	0.000		
BHC, Delta	*	0.000		
BHC, Gamma (Lindane)	*	0.000		
Chlordane	*	0.000		
4, 4'-DDD	*	0.000		
4, 4'-DDE	*	0.000		
4, 4'-DDT	*	0.000		

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Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034

Sample From: WASH TANK / GRAB 05/21/15 1110-1115

ANALYTE		RESULT	UNITS	METHOD
Dieldrin	*	0.000		
Endosulfan, Alpha-	*	0.000		
Endosulfan, Beta-	*	0.000		
Endosulfan sulfate	*	0.000		
Endrin	*	0.000		
Endrin aldehyde	*	0.000		
Heptachlor	*	0.000		
Heptachlor epoxide (beta)	*	0.000		
2, 3, 7, 8- TCDD	*	0.000		
Toxaphene	*	0.000		
PCB-1016	*	0.000		
PCB-1221	*	0.000		
PCB-1232	*	0.000		
PCB-1242	*	0.000		
PCB-1248	*	0.000		
PCB-1254	*	0.000		
PCB-1260	*	0.000		
TTO, Total Toxic Organics	*	0.000		
Extraction, Base-Neutrals, Acids	=	1.000	ea	3510
Extraction, Pesticides, PCB's	=	1.000	ea	3510
Arsenic, As	<	0.011	mg/Liter	200.7
Cadmium, Cd	<	0.520	mg/Liter	200.7
Chromium, Cr	<	0.011	mg/Liter	200.7
Copper, Cu	<	0.030	mg/Liter	200.7
Lead, Pb	<	0.016	mg/Liter	200.7
Manganese, Mn	<	1.970	mg/Liter	200.7
Nickel, Ni	<	0.128	mg/Liter	200.7
Silver, Ag	<	0.021	mg/Liter	200.7
Zinc, Zn	<	0.058	mg/Liter	200.7
Metals, Digestion for	=	1.000	ea sample	3030 D

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ANALYTE	RESULT UNITS	METHOD

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Copies to:

MR. CHUCK JONES
ENV. HEALTH & SAFETY MGR

ONE SCROLL DRIVE
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Laboratory Number: 18169.0002 TKR Reviewed By: K. E. Sorrells, M.S. []



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May 21, 2015

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Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up
Sample preservation and laboratory analysis conducted according to EPA
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.* QA PLAN filed with
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