

Loethen, Katie

From: Loethen, Katie
Sent: Monday, June 28, 2021 3:38 PM
To: 'james.house@kohler.com'
Cc: 'sheridan@windstream.net'; McWilliams, Carrie; Sears, Jessica; Jain, Anmol
Subject: AR0034347_Kohler ARP000021 January 2021 semi annual Pretreatment report_20210628

James,

Kohler's 2018, 2019, and 2020 semi-annual Pretreatment reports were received, reviewed, and deemed complete. Kohler is in compliance with the reporting requirements in 40 CFR 403.12(e) as well as the Metal Finishing standards in 40 CFR 433.15. No further action is deemed necessary at this time.

Thank you for the complete reports,

Katie Loethen | Wastewater Engineering Intern
Division of Environmental Quality | **Office of Water Quality**
Permits Branch
5301 Northshore Drive | North Little Rock, AR 72118
t: 501.683.3001 | e: Katie.loethen@adeq.state.ar.us



ARKANSAS
ENERGY & ENVIRONMENT

KOHLER.

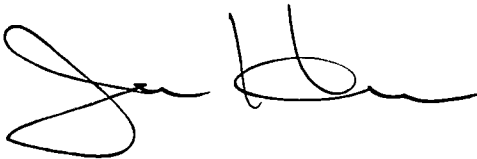
Mr. Guy Lester
NPDES Pretreatment Engineer
Arkansas Department of Environmental Quality
5301 Northshore Drive, North Little Rock, AR 72118

Re: **SEMI-ANNUAL REPORT 2nd HALF 2019**

Dear Mr. Lester,

In accordance with 40CFR403.12 (e) we are submitting semi-annual reports for the months July 1, 2019 through December 31, 2019. Attached with this report is the TTO analysis for this period.
Please contact me at 870-917-6215 should you have any questions.

Sincerely,



James House
Safety/Environmental Specialist

Attachments: TTO Analysis for the 2nd half of 2019

Cc: Jeff Plass, EHS Supervisor, Kohler, WI
Erika Strand, Global Faucets Program Coordinator
Sheridan Waterworks
File

SEMI-ANNUAL REPORT FOR INDUSTRIAL USERS REGULATED BY 40CFR433

Use of this form is not an EPA/ADEQ requirement.

Attn: Water Div/NPDES Pretreatment

(1) IDENTIFYING INFORMATION	
A. LEGAL NAME & MAILING ADDRESS KOHLER Company 415 S Oklahoma St. Sheridan, AR 72150	B. FACILITY & LOCATION ADDRESS 415 S. Oklahoma St. Sheridan, AR 72150
C. FACILITY CONTACT: James House TELEPHONE NUMBER: 870-942-2111	
(2) REPORTING PERIOD-- FISCAL YEAR From January 1 to December 31 (Both Semi-Annual Reports must cover Fiscal Year)	
A. MONTHS WHICH REPORTS ARE DUE July & December	B. PERIOD COVERED BY THIS REPORT FROM: July 1, 2019 TO: December 31, 2019
(3) DESCRIPTION OF OPERATION	
A. REGULATED PROCESSES <u>CORE PROCESS(ES)</u> CHECK EACH APPLICABLE BLOCK <input checked="" type="checkbox"/> Electroplating <input checked="" type="checkbox"/> Electroless Plating <input type="checkbox"/> Anodizing <input type="checkbox"/> Coating <input type="checkbox"/> Chemical Etching and Milling <input type="checkbox"/> Printed Circuit Board Manufacture <u>ANCILLARY PROCESS(ES)*</u> LIST BELOW EACH PROCESS USED IN THE FACILITY BRAZING <u>ACID/ALKALI CLEANING</u> _____ _____ _____ _____	B. CHANGES: SUMMARIZE ANY CHANGES IN THE REGULATED PROCESSES SINCE THE LAST REPORT. ATTACH AN ADDITIONAL SHEET IF THE SPACE BELOW IS INADEQUATE. PROVIDE A NEW SCHEMATIC IF APPROPRIATE.
*SEE 40CFR.10(a) FOR 40 DIFFERENT OPERATIONS	
C. Number of Regular Employees at this Facility <u>368</u>	D. [Reserved]

(4) FLOW MEASUREMENT

INDIVIDUAL & TOTAL PROCESS FLOWS DISCHARGED TO POTW IN GALLONS PER DAY

Process	Average	Maximum	Type of Discharge
Regulated (Core & Anc)	41,485	150,000	POTW Continuous
Regulated (Cyanide)	0	0	N/A
§403.6(e) Unregulated*	0	0	N/A
§403.6(e) Dilute	0	0	N/A
Cooling Water	0	0	N/A
Sanitary	81,401	294,324	POTW Continuous
Total Flow to POTW	84,734	306,375	*****

**Unregulated* has a precise legal meaning, see 40CFR403.6(e).

(5) MEASUREMENT OF POLLUTANTS

A. TYPE OF TREATMENT SYSTEM

CHECK EACH APPLICABLE BLOCK

- Neutralization
- Chemical Precipitation and Sedimentation
- Chromium Reduction
- Cyanide Destruction
- Other
- None

B. COMMENTS OF TREATMENT SYSTEM

Treated water samples are sent weekly to commercial lab for analysis. In-house testing performed twice per shift. Results of in-house tests are hand delivered to city each Monday. Monthly DMR is also submitted.

C. THE INDUSTRIAL USER MUST PERFORM SAMPLING AND ANALYSIS OF THE EFFLUENT FROM ALL REGULATED PROCESSES-- CORE& ANCILLARY--(AFTER TREATMENT, IF APPLICABLE). ATTACH THE LAB ANALYSIS WHICH SHOWS A MAXIMUM; TABULATE ALL THE ANALYTICAL DATA COLLECTED DURING THE REPORT PERIOD IN THE SPACE PROVIDED BELOW. ZERO CONCENTRATIONS ARE NOT ACCEPTABLE; LIST THE DETECTION LIMIT IF CONCENTRATION WAS BELOW DETECTION LIMIT.

Pollutant(mg/l)	Cd	Cr	Cu	Pb	Ni	Ag	Zn	CN*	TTO*
Max for 1 day	0.69	2.77	3.38	0.69	3.98	0.43	2.61	MDL	2.13
Monthly Ave	0.26	1.71	2.07	0.43	2.38	0.24	1.48	MDL	--
Max Measured	0	0.476	0.241	0.02	0.724	0.02	0.0728	0.02	0.00
Ave Measured	0	0.21	0.15	0.02	0.38	0.02	0.04	0.02	0.00

*PROVIDE THE CONCENTRATION HERE IF NO CERTIFICATION IS PROVIDED IN SECTION 6 BELOW OR MARK N/A IF A CERTIFICATION IS PROVIDED.

Sample Location #001 AFTER TREATMENT/BEFORE DISCHARGE

Sample Type (Grab or Composite) COMPOSITE

Number of Samples and Frequency Collected 1/WEEK - (IN-HOUSE 2/SHIFT)

40CFR136 Preservation and Analytical Methods Use: Yes No

(6) CERTIFICATION

A. CYANIDE CERTIFICATION

Based on my inquiry of the person or persons directly responsible for managing compliance with pretreatment standards, I certify that to the best of my knowledge, cyanide has not been used or generated in our processes which are regulated by the Metal Finishing (40CFR 433) categorical pretreatment standards since the filing of the last semi-annual compliance report.

(Typed Name)

(Corporate Officer or authorized representative)

Date of Signature

B. CHECK ONE: §433.11(e) TOXIC ORGANIC ANALYSIS ATTACHED §433.12(a) TTO CERTIFICATION

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 waste waters has occurred since filing of the last semi-annual compliance report. I further certify that this facility is implementing the toxic organic management plan submitted to Arkansas Department of Pollution Control and Ecology.

N/A

(Typed Name)

(Corporate Officer or authorized representative)

Date of Signature

CORPORATE ACKNOWLEDGEMENT (Optional)

STATE OF ARKANSAS)

COUNTY OF _____)

Before me, the undersigned authority, on this day personally appeared

of

a corporation, known to me to be the person whose name is subscribed to the foregoing instruments(s), and acknowledged to me that he executed the same for purposes and considerations therein expressed, in the capacity therein stated and as the act and deed of said corporation.

Given under my hand and seal of office on this _____ day of _____ 2018

Notary Public in and for _____
County, Arkansas

My commission expires _____

(7) POLLUTION PREVENTION ACT OF 1990 [42 U.S.C. 13101 et seq.]

§6602 [42 U.S.C. 1310] Findings and Policy para (b) Policy - The congress hereby declares it to be the national policy of the United States that pollution should be prevented or reduced at the source whenever feasible; pollution that cannot be prevented should be recycled in an environmentally safe manner, whenever feasible; pollution that cannot be prevented or recycled should be treated in an environmentally safe manner whenever feasible; and disposal or other release into the environment should be employed only as a last resort and should be conducted in an environmentally safe manner.

The User may list any new or ongoing Pollution Prevention practices:

(8) GENERAL COMMENTS.

ATTACHMENTS:
TTO/CN Analysis
Semi-Annual Metals Analysis

cc: Jim Bilgo-Corporate EHS Program Coordinator
Sheridan Water Office
File

(9) SIGNATORY REQUIREMENTS [40CFR403.12(1)]

I certify under penalty of law that I have personally examined and am familiar with the information in this semi-annual compliance 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.

Russell Skinner
NAME OF CORPORATE OFFICIER OR AUTHORIZED REPRESENTATIVE


SIGNATURE

Plant Manager of Arkansas Faucet Operations
OFFICIAL TITLE

2/13/2020
DATE SIGNED

DATE	GALLONS	DATE	GALLONS	DATE	GALLONS	DATE	GALLONS	DATE
7/1/19	100200	8/1/19	88000	9/1/19	Sunday	10/1/19	75000	11/1/19
7/2/19	65900	8/2/19	Friday	9/2/19	Holiday	10/2/19	67000	11/2/19
7/3/19	71000	8/3/19	Saturday	9/3/19	91400	10/3/19	58000	11/3/19
7/4/19	Holiday	8/4/19	Sunday	9/4/19	78800	10/4/19	Friday	11/4/19
7/5/19	Friday	8/5/19	97600	9/5/19	80500	10/5/19	Saturday	11/5/19
7/6/19	Saturda	8/6/19	82200	9/6/19	Friday	10/6/19	Sunday	11/6/19
7/7/19	Sunday	8/7/19	53200	9/7/19	Saturday	10/7/19	60000	11/7/19
7/8/19	102000	8/8/19	58000	9/8/19	Sunday	10/8/19	61000	11/8/19
7/9/19	115400	8/9/19	Friday	9/9/19	53000	10/9/19	61000	11/9/19
7/10/19	68800	8/10/19	Saturday	9/10/19	88900	10/10/19	52000	11/10/19
7/11/19	65000	8/11/19	Sunday	9/11/19	80700	10/11/19	Friday	11/11/19
7/12/19	Friday	8/12/19	41200	9/12/19	70700	10/12/19	Saturday	11/12/19
7/13/19	Saturda	8/13/19	121500	9/13/19	60000	10/13/19	Sunday	11/13/19
7/14/19	Sunday	8/14/19	79100	9/14/19	30000	10/14/19	60000	11/14/19
7/15/19	120000	8/15/19	100000	9/15/19	Sunday	10/15/19	70000	11/15/19
7/16/19	89000	8/16/19	Friday	9/16/19	71000	10/16/19	63000	11/16/19
7/17/19	128400	8/17/19	Saturday	9/17/19	60000	10/17/19	52000	11/17/19
7/18/19	93800	8/18/19	Sunday	9/18/19	64000	10/18/19	Friday	11/18/19
7/19/19	Friday	8/19/19	100300	9/19/19	87000	10/19/19	Saturday	11/19/19
7/20/19	Saturda	8/20/19	20000	9/20/19	Friday	10/20/19	Sunday	11/20/19
7/21/19	Sunday	8/21/19	18400	9/21/19	Saturday	10/21/19	51000	11/21/19
7/22/19	100500	8/22/19	52000	9/22/19	Sunday	10/22/19	62000	11/22/19
7/23/19	90000	8/23/19	90000	9/23/19	94000	10/23/19	60000	11/23/19
7/24/19	84400	8/24/19	Saturday	9/24/19	69000	10/24/19	50000	11/24/19
7/25/19	105600	8/25/19	Sunday	9/25/19	65000	10/25/19	Friday	11/25/19
7/26/19	Friday	8/26/19	88800	9/26/19	55000	10/26/19	Saturday	11/26/19
7/27/19	Saturday	8/27/19	81700	9/27/19	Friday	10/27/19	Sunday	11/27/19
7/28/19	Sunday	8/28/19	99700	9/28/19	Saturday	10/28/19	48000	11/28/19
7/29/19	100100	8/29/19	74000	9/29/19	Sunday	10/29/19	50000	11/29/19
7/30/19	100500	8/30/19	Friday	9/30/19	64000	10/30/19	40000	11/30/19

7/31/19	75000	8/31/19	Saturday			10/31/19	40000	

TOTALS								
Total Gallons Per Month	1675600		1345700			1263000		1080000
Max Gallons Per Day	128,400		121,500			94,000		75,000
Avg Gallons Per Day	93,089		74,761			70,167		56,842

GALLONS	DATE	GALLONS
Friday	12/1/19	Sunday
Saturday	12/2/19	39000
Sunday	12/3/19	35000
27000	12/4/19	28000
24000	12/5/19	28500
48000	12/6/19	Friday
22000	12/7/19	Saturday
Friday	12/8/19	Sunday
Saturday	12/9/19	29000
Sunday	12/10/19	30000
51000	12/11/19	30000
25000	12/12/19	29000
Inventory	12/13/19	Friday
Inventory	12/14/19	Saturday
Friday	12/15/19	Sunday
Saturday	12/16/19	24000
Sunday	12/17/19	24000
23500	12/18/19	24000
28500	12/19/19	13000
27000	12/20/19	6000
28500	12/21/19	Saturday
Friday	12/22/19	Sunday
Saturday	12/23/19	Holiday
Sunday	12/24/19	Holiday
27000	12/25/19	Holiday
27000	12/26/19	26000
28000	12/27/19	16000
Thursday	12/28/19	Saturday
Friday	12/29/19	Sunday
Saturday	12/30/19	25000

	12/31/19	24000
386500		430500
51,000		39,000
29,731		25,324

SEMI-ANNUAL REPORT CALCULATION WORKSHEET (July-December)

Process	Average	Maximum	Type of Discharge
Regulated (Core & Ane)	41485	150000	POTW Continuous
Regulated (Cyanide)	0	0	NA
§403.6(e) Unregulated*	0	0	NA
§403.6(e) Dilute	0	0	NA
Cooling Water	0	0	NA
Sanitary	81401	294324	POTW Continuous
Total Flow to POTW	84,733.56	306,374.87	*****

TOTAL H2O TO PLANT*	NUMBER OF DAYS	AVERAGE GALLONS PER DAY	TOTAL H2O TREATED**	% OF H2O TREATED	MAXIMUM DAY TREATED**	MAXIMUM GALLONS PER DAY
18,310,000	149	122886	6181300	33.8%	150000	444324

D6

TOTAL H2O TREATED**	NUMBER OF DAYS	AVERAGE REGULATED TOTAL	AVERAGE GALLONS PER DAY	AVERAGE SANITARY	MAXIMUM DAY TREATED**	MAXIMUM GALLONS PER DAY	MAXIMUM SANITARY
6,181,300	149	41485	122886	81401	150000	444324	294324
		41485.2349	C12	D12	F12		

*NUMBERS FROM WATER BILLS

**NUMBERS FROM THE ECOLOGY LOG BOOK

Location Meter #	USAGES					
	To Plater	NE Front	SE Front	Plastics	Toilet Seats	Toilet Seats
4097500	4098000	4099000	4100000	4110000	4111000	
January	306,700	536,900	1,909,000	231,200	32,700	
February	391,100	677,400	2,224,000	246,500	33,900	
March	346,500	579,200	1,818,000	144,300	31,700	
April	398,400	690,800	1,711,000	235,700	33,700	
May	347,000	750,900	2,680,000	294,500	51,400	
June	293,400	636,500	1,910,000	365,400	37,600	
July	304,200	178,700	2,628,000	638,700	44,000	
August	265,100	161,000	1,579,000	530,800	184,300	
September	343,600	191,400	2,057,000	1,433,600	66,200	
October	199,800	191,100	1,778,000	1,195,000	91,200	
November	139,000	141,900	1,358,000	687,700	66,300	
December	110,700	92,800	906,000	699,900	47,000	
6MO Total	1,362,400	956,900	10,306,000	0	5,185,700	499,000

Faucet Plant Total 12625300

	Cd Max	Cd Avg	Cr Max	Cr Avg	Cu Max	Cu Avg	Pb Max	Pb Avg	Ni Max	Ni Avg	Ag Max	Ag Avg	Zn Max	Zn Avg	TTO Max	TTO Avg	Cn Max	Cn Avg
July	0	0	0.195	0.199					0.295	0.299			0.0358	0.0358				
August	0	0	0.0934	0.0934	0.181	0.181			0.724	0.724			0.0234	0.0234				
September	0	0	0.476	0.476	0.178	0.178			0.204	0.204			0.0452	0.0452				
October	0	0	0.157	0.157	0.143	0.143	0.02	0.02	0.28	0.28	0.02	0.02						
November	0	0	0.303	0.303	0.12	0.12	0.02	0.02	0.628	0.628	0.02	0.02	0.0728	0.0728				
December	0	0	0.0578	0.0578	0.0513	0.0513	0.02	0.02			0.02	0.02	0.0261	0.0261	0	0	0.02	0.02
Max Measured	0		0.476		0.241		0.02		0.724		0.02		0.0728		0		0.02	
Avg Measured	0		0.2137		0.15		0.02		0.376666667		0.02		0.04		0		0.02	



8100 National Dr. - Little Rock, AR 72209
501-455-3233 Fax 501-455-6118

30 January 2020

James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150

Project: Semiannual Wastewater Sample(s)

Project Number: January 2020

SDG Number: 2001199

Enclosed are the results of analyses for samples received by the laboratory on 16-Jan-20 09:50. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

<u>Custody Seals</u>	✓
<u>Containers Correct</u>	✓
<u>COC/Labels Agree</u>	✓
<u>Received On Ice</u>	✓
Temperature on Receipt	5.0°C

Sincerely,

Norma James / Teresa Coins

Norma James and/or Teresa Coins
Technical Director and/or QA Officer

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30 January 2020



James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)
Project Number: January 2020
Date Received: 16-Jan-20 09:50

CASE NARRATIVE

Sample Delivery Group – 2001199

One OR more of the qualifiers described below may appear in this report. Qualifiers in RED apply to this SDG (Sample Delivery Group).

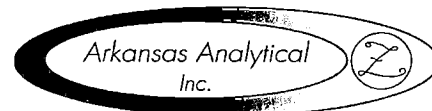
CALIBRATION QUALIFIERS:

<u>Qualifier</u>	<u>Description</u>
CR	Result above highest calibration standard, but within linear calibration range.
Est3	Result at the instrument was above the concentration of the highest standard in the calibration curve.
E2-F	Second Source Verification Failure
E7	Internal Standard Response Failure
E11	Initial Calibration Minimum Response Factor Failure
E21	CCV Low
E-01	CCV High
E35	Low Level CCV Failure

QUALITY CONTROL QUALIFIERS:

<u>Qualifier</u>	<u>Description</u>
E20	Sample used as "parent" for the associated analytical batch.
%D3/S-01	Surrogate failed to recover within acceptance criteria (%D3/S-01).
E1	Results associated with this surrogate were qualified as "estimated" (E1).
B	Present in the Associated Blank
B1	Present in Blank, but Not In the Sample.
%D2 / E5	Laboratory Control Spike (LCS) and/or Laboratory Control Spike Duplicate (LCSD) failed to recover with acceptance criteria (%D2). Associated results were qualified as "estimated" (E5).
%D1	Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) failed acceptance criteria.
MBA	Failed criteria due to the high concentration of analyte in the parent sample.
MBI	Failed criteria due to an interference in the parent sample.
%D3	Quality Control Surrogate failed acceptance criteria.
NREC	Quality Control Surrogate failed.

30 January 2020



James House
 Kohler-Plating - Sheridan
 415 S Oklahoma St.
 Sheridan, AR 72150
 Project: Semiannual Wastewater Sample(s)
 Project Number: January 2020
 Date Received: 16-Jan-20 09:50

ANALYTICAL RESULTS

Lab Number: 2001199-01
 Sample Name: Wastewater Composite
 Date/Time Collected: 1/16/20 6:00
 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	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
2,4-Dichlorophenol	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
2,4-Dimethylphenol	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
2,4-Dinitrophenol	ug/L	< 50.0		1/20/20 18:10	B001303	EPA 625.1-2016
2-Chlorophenol	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
2-Nitrophenol	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
4,6-Dinitro-o-cresol	ug/L	< 50.0		1/20/20 18:10	B001303	EPA 625.1-2016
4-Chloro-3-methylphenol	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
4-Nitrophenol	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
Pentachlorophenol	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
Phenol	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
2,4,6-Tribromophenol [surr]	%	123		1/20/20 18:10	B001303	EPA 625.1-2016
2-Fluorophenol [surr]	%	35.8		1/20/20 18:10	B001303	EPA 625.1-2016
Phenol-d5 [surr]	%	31.3		1/20/20 18:10	B001303	EPA 625.1-2016
<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	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
1,2-Dichlorobenzene	ug/L	< 10.0	E20	1/20/20 18:10	B001303	EPA 625.1-2016
1,2-Diphenyl Hydrazine	ug/L	< 20.0		1/20/20 18:10	B001303	EPA 625.1-2016
1,3-Dichlorobenzene	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
1,4-Dichlorobenzene	ug/L	< 10.0	E20	1/20/20 18:10	B001303	EPA 625.1-2016
2,3,7,8-TCDD Screen	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
2,2'-Oxybis(1-Chloropropane)	ug/L	< 10.0	E20	1/20/20 18:10	B001303	EPA 625.1-2016
2,4-Dinitrotoluene	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
2,6-Dinitrotoluene	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
2-Chloronaphthalene	ug/L	< 5.00	E20	1/20/20 18:10	B001303	EPA 625.1-2016
3,3'-Dichlorobenzidine	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
4-Bromophenyl-phenylether	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
4-Chlorophenyl-phenylether	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
Acenaphthene	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
Acenaphthylene	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
Anthracene	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
Benzidine	ug/L	< 50.0	E21	1/20/20 18:10	B001303	EPA 625.1-2016
Benzo[a]pyrene	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
Benzo[b]fluoranthene	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
Benzo[g,h,i]perylene	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
Benzo[k]fluoranthene	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
Benzo (a) anthracene	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
Bis(2-chloroethoxy)methane	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
Bis(2-chloroethyl)ether	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
Bis(2-ethylhexyl)phthalate	ug/L	< 7.50		1/20/20 18:10	B001303	EPA 625.1-2016
Butylbenzylphthalate	ug/L	< 7.50		1/20/20 18:10	B001303	EPA 625.1-2016
Chrysene	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016

30 January 2020



James House
 Kohler-Plating - Sheridan
 415 S Oklahoma St.
 Sheridan, AR 72150
 Project: Semiannual Wastewater Sample(s)
 Project Number: January 2020
 Date Received: 16-Jan-20 09:50

ANALYTICAL RESULTS

Lab Number: 2001199-01
 Sample Name: Wastewater Composite
 Date/Time Collected: 1/16/20 6:00
 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>
Dibenz[a,h]anthracene	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
Diethylphthalate	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
Dimethylphthalate	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
Di-n-butylphthalate	ug/L	< 5.00	E20	1/20/20 18:10	B001303	EPA 625.1-2016
Di-n-octylphthalate	ug/L	< 7.50		1/20/20 18:10	B001303	EPA 625.1-2016
Fluoranthene	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
Fluorene	ug/L	< 7.50		1/20/20 18:10	B001303	EPA 625.1-2016
Hexachlorobenzene	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
Hexachlorobutadiene	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
Hexachlorocyclopentadiene	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
Hexachloroethane	ug/L	< 5.00	E20	1/20/20 18:10	B001303	EPA 625.1-2016
Indeno[1,2,3-cd]pyrene	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
Isophorone	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
Naphthalene	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
Nitrobenzene	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
N-Nitrosodimethylamine	ug/L	< 50.0		1/20/20 18:10	B001303	EPA 625.1-2016
n-Nitrosodiphenylamine	ug/L	< 20.0	E21	1/20/20 18:10	B001303	EPA 625.1-2016
N-Nitroso-di-n-propylamine	ug/L	< 20.0		1/20/20 18:10	B001303	EPA 625.1-2016
Phenanthrene	ug/L	< 10.0		1/20/20 18:10	B001303	EPA 625.1-2016
Pyrene	ug/L	< 5.00		1/20/20 18:10	B001303	EPA 625.1-2016
2-Fluorobiphenyl [surr]	%	65.5		1/20/20 18:10	B001303	EPA 625.1-2016
Nitrobenzene-d5 [surr]	%	69.5		1/20/20 18:10	B001303	EPA 625.1-2016
Terphenyl-d14 [surr]	%	113		1/20/20 18:10	B001303	EPA 625.1-2016

<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		1/21/20 11:32	B001254	EPA 608.3-2016
alpha-BHC	ug/L	< 0.009		1/21/20 11:32	B001254	EPA 608.3-2016
beta-BHC	ug/L	< 0.018	E21	1/21/20 11:32	B001254	EPA 608.3-2016
gamma-BHC (Lindane)	ug/L	< 0.027		1/21/20 11:32	B001254	EPA 608.3-2016
delta-BHC	ug/L	< 0.012		1/21/20 11:32	B001254	EPA 608.3-2016
Chlordane	ug/L	< 0.042		1/21/20 11:32	B001254	EPA 608.3-2016
alpha-Chlordane	ug/L	< 0.050		1/21/20 11:32	B001254	EPA 608.3-2016
gamma-Chlordane	ug/L	< 0.050		1/21/20 11:32	B001254	EPA 608.3-2016
4,4'-DDT	ug/L	< 0.033		1/21/20 11:32	B001254	EPA 608.3-2016
4,4'-DDE	ug/L	< 0.012		1/21/20 11:32	B001254	EPA 608.3-2016
4,4'-DDD	ug/L	< 0.100		1/21/20 11:32	B001254	EPA 608.3-2016
Dieldrin	ug/L	< 0.020		1/21/20 11:32	B001254	EPA 608.3-2016
Endosulfan I	ug/L	< 0.006		1/21/20 11:32	B001254	EPA 608.3-2016
Endosulfan II	ug/L	< 0.042		1/21/20 11:32	B001254	EPA 608.3-2016
Endosulfan sulfate	ug/L	< 0.012		1/21/20 11:32	B001254	EPA 608.3-2016
Endrin	ug/L	< 0.100		1/21/20 11:32	B001254	EPA 608.3-2016
Endrin aldehyde	ug/L	< 0.070		1/21/20 11:32	B001254	EPA 608.3-2016
Heptachlor	ug/L	< 0.009		1/21/20 11:32	B001254	EPA 608.3-2016

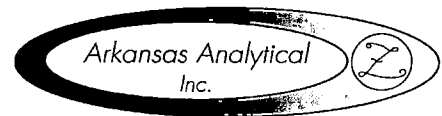
James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)
Project Number: January 2020
Date Received: 16-Jan-20 09:50

ANALYTICAL RESULTS

Lab Number: 2001199-01
Sample Name: Wastewater Composite
Date/Time Collected: 1/16/20 6:00
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>
Heptachlor epoxide	ug/L	< 0.010		1/21/20 11:32	B001254	EPA 608.3-2016
Chlorpyrifos	ug/L	< 0.070		1/21/20 11:32	B001254	EPA 608.3-2016
Aroclor-1242	ug/L	< 0.095		1/21/20 11:32	B001254	EPA 608.3-2016
Aroclor-1254	ug/L	< 0.200		1/21/20 11:32	B001254	EPA 608.3-2016
Aroclor-1221	ug/L	< 0.200		1/21/20 11:32	B001254	EPA 608.3-2016
Aroclor-1232	ug/L	< 0.200		1/21/20 11:32	B001254	EPA 608.3-2016
Aroclor-1248	ug/L	< 0.200		1/21/20 11:32	B001254	EPA 608.3-2016
Aroclor-1260	ug/L	< 0.200		1/21/20 11:32	B001254	EPA 608.3-2016
Aroclor-1016	ug/L	< 0.200		1/21/20 11:32	B001254	EPA 608.3-2016
Toxaphene	ug/L	< 0.300		1/21/20 11:32	B001254	EPA 608.3-2016
TCMX [surr]	%	49.3		1/21/20 11:32	B001254	EPA 608.3-2016
DCBP [surr]	%	48.7		1/21/20 11:32	B001254	EPA 608.3-2016
<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>
Arsenic	mg/L	< 0.0235		1/17/20 12:17	B001262	EPA 200.7, Rev 4.4 (1994)
Cadmium	mg/L	< 0.00120		1/17/20 12:17	B001262	EPA 200.7, Rev 4.4 (1994)
Chromium	mg/L	0.119		1/17/20 12:17	B001262	EPA 200.7, Rev 4.4 (1994)
Copper	mg/L	0.243		1/17/20 12:17	B001262	EPA 200.7, Rev 4.4 (1994)
Lead	mg/L	< 0.0156		1/17/20 12:17	B001262	EPA 200.7, Rev 4.4 (1994)
Mercury	mg/L	< 0.000200		1/22/20 16:17	B001324	SW7470A/EPA245.1,3,0- 1994
Molybdenum	mg/L	< 0.0312		1/17/20 12:17	B001262	EPA 200.7, Rev 4.4 (1994)
Nickel	mg/L	0.415		1/17/20 12:17	B001262	EPA 200.7, Rev 4.4 (1994)
Selenium	mg/L	< 0.0520		1/17/20 12:17	B001262	EPA 200.7, Rev 4.4 (1994)
Silver	mg/L	< 0.0208		1/17/20 12:17	B001262	EPA 200.7, Rev 4.4 (1994)
Zinc	mg/L	0.0370		1/17/20 12:17	B001262	EPA 200.7, Rev 4.4 (1994)
<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-Dichloroethane	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
1,1-Dichloroethene	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
1,1,1-Trichloroethane	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
1,1,2-Trichloroethane	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
1,1,2,2-Tetrachloroethane	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
1,2-Dichlorobenzene	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
1,2-Dichloropropane	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
1,2-Dichloroethane	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
1,3-Dichlorobenzene	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
1,4-Dichlorobenzene	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
2-Chloroethyl vinyl ether	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Acrylonitrile	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Benzene	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Bromodichloromethane	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Bromoform	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Acrolein	ug/L	< 4.00		1/16/20 16:35	B001260	EPA 624.1-2016

30 January 2020



James House
 Kohler-Plating - Sheridan
 415 S Oklahoma St.
 Sheridan, AR 72150
 Project: Semiannual Wastewater Sample(s)
 Project Number: January 2020
 Date Received: 16-Jan-20 09:50

ANALYTICAL RESULTS

Lab Number: 2001199-01
 Sample Name: Wastewater Composite
 Date/Time Collected: 1/16/20 6:00
 Sample Matrix: Water

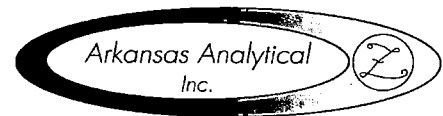
<u>Volatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Bromomethane	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Carbon tetrachloride	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Chlorobenzene	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Dibromochloromethane	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Chloroethane	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Chloroform	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Chloromethane	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
cis-1,3-Dichloropropene	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Ethylbenzene	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Methylene chloride	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Tetrachloroethene	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Toluene	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
trans-1,2-Dichloroethene	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Trichloroethene	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
trans-1,3-Dichloropropene	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Vinyl chloride	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
Trichlorofluoromethane	ug/L	< 1.00		1/16/20 16:35	B001260	EPA 624.1-2016
4-Bromofluorobenzene [surr]	%	103		1/16/20 16:35	B001260	EPA 624.1-2016
1,2-Dichloroethane-d4 [surr]	%	101		1/16/20 16:35	B001260	EPA 624.1-2016
Toluene-d8 [surr]	%	101		1/16/20 16:35	B001260	EPA 624.1-2016
<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>
BOD-5	mg/L	< 2.00		1/17/20 8:30	B001268	SM 5210 B-2011, Hach 10360
TSS	mg/L	4.00		1/17/20 9:40	B001259	I-3765-85/SM2540 D-2011

ANALYTICAL RESULTS

Lab Number: 2001199-02
 Sample Name: Wastewater Grab
 Date/Time Collected: 1/16/20 6:00
 Sample Matrix: Water

<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		1/17/20 10:40	B001279	SM 4500-CN B,E-2011
Oil and Grease	mg/L	< 5.10		1/20/20 7:54	B001292	EPA1684 Mod, Rev. B 2010

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 Sheridan, AR 72150
 Project: Semiannual Wastewater Sample(s)
 Project Number: January 2020
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QUALITY CONTROL RESULTS

Pesticides/PCBs -- Batch: B001254 (Water)

Prepared: 16-Jan-20 14:47 By: TB -- Analyzed: 21-Jan-20 11:06 By: TB

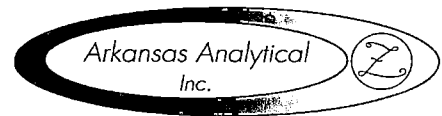
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
4,4'-DDD	<0.002 ug/L	79.2% / NA	63.0% / 63.6%		0.962%	
4,4'-DDE	<0.001 ug/L	70.2% / NA	67.8% / 74.4%		9.35%	
4,4'-DDT	<0.001 ug/L	73.7% / NA	56.1% / 58.7%		4.56%	
Aldrin	<0.0005 ug/L	44.8% / NA	39.9% / 44.0%		9.47%	%D1
alpha-BHC	<0.0006 ug/L	56.7% / NA	44.2% / 49.5%		10.8%	
beta-BHC	<0.002 ug/L	54.9% / NA	42.6% / 45.6%		5.66%	E21
delta-BHC	<0.002 ug/L	69.7% / NA	58.4% / 61.5%		5.28%	
Dieldrin	<0.001 ug/L	63.0% / NA	50.2% / 53.5%		6.29%	
Endosulfan I	<0.0003 ug/L	60.0% / NA	60.3% / 67.4%		11.1%	
Endosulfan II	<0.0009 ug/L	70.5% / NA	53.6% / 55.1%		2.66%	
Endosulfan sulfate	<0.001 ug/L	69.5% / NA	49.6% / 52.1%		5.03%	
Endrin	<0.001 ug/L	64.2% / NA	45.0% / 48.2%		6.53%	
Endrin aldehyde	<0.001 ug/L	76.1% / NA	41.6% / 43.8%		4.28%	%D1
gamma-BHC (Lindane)	<0.001 ug/L	53.5% / NA	52.0% / 57.7%		9.87%	
Heptachlor	<0.001 ug/L	51.9% / NA	43.1% / 47.6%		9.74%	
Heptachlor epoxide	<0.0005 ug/L	64.7% / NA	64.4% / 72.0%		11.1%	
DCBP [surr]	71.8 %	53.7% / NA	54.6% / 52.8%		NA	
TCMX [surr]	32.1 %	28.7% / NA	16.0% / 10.7%		NA	

Wet Chemistry -- Batch: B001259 (Water)

Prepared: 17-Jan-20 09:40 By: MH -- Analyzed: 17-Jan-20 09:40 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	89.0% / 92.0%	NA / NA		3.31%	

30 January 2020



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 Project: Semiannual Wastewater Sample(s)
 Project Number: January 2020
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QUALITY CONTROL RESULTS

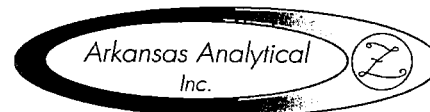
Volatiles -- Batch: B001260 (Water)

Prepared: 16-Jan-20 15:11 By: TB -- Analyzed: 16-Jan-20 17:31 By: TB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,1,1-Trichloroethane	<1.00 ug/L	106% / NA	103% / 101%		1.10%	
1,1,2,2-Tetrachloroethane	<1.00 ug/L	105% / NA	98.5% / 98.0%		0.497%	
1,1,2-Trichloroethane	<1.00 ug/L	105% / NA	101% / 97.9%		2.68%	
1,1-Dichloroethane	<1.00 ug/L	105% / NA	103% / 100%		2.98%	
1,1-Dichloroethene	<1.00 ug/L	115% / NA	110% / 108%		1.71%	
1,2-Dichlorobenzene	<1.00 ug/L	98.5% / NA	95.0% / 94.7%		0.312%	
1,2-Dichloroethane	<1.00 ug/L	104% / NA	104% / 101%		3.53%	
1,2-Dichloropropane	<1.00 ug/L	103% / NA	100% / 98.5%		1.74%	
1,3-Dichlorobenzene	<1.00 ug/L	98.0% / NA	95.7% / 95.2%		0.586%	
1,4-Dichlorobenzene	<1.00 ug/L	95.8% / NA	93.1% / 91.5%		1.71%	
2-Chloroethyl vinyl ether	<1.00 ug/L	88.6% / NA	87.7% / 85.4%		2.73%	
Acrolein	<4.00 ug/L	105% / NA	96.1% / 88.6%		8.14%	
Acrylonitrile	<1.00 ug/L	109% / NA	106% / 105%		0.995%	
Benzene	<1.00 ug/L	106% / NA	103% / 100%		2.71%	
Bromodichloromethane	<1.00 ug/L	108% / NA	107% / 104%		3.32%	
Bromoform	<1.00 ug/L	95.1% / NA	91.9% / 90.6%		1.41%	
Bromomethane	<1.00 ug/L	91.4% / NA	88.1% / 91.8%		4.12%	
Carbon tetrachloride	<1.00 ug/L	101% / NA	98.5% / 99.6%		1.11%	
Chlorobenzene	<1.00 ug/L	101% / NA	96.9% / 95.3%		1.65%	
Chloroethane	<1.00 ug/L	93.5% / NA	94.9% / 94.1%		0.881%	
Chloroform	<1.00 ug/L	106% / NA	104% / 101%		3.10%	
Chloromethane	<1.00 ug/L	86.5% / NA	87.1% / 85.7%		1.54%	
cis-1,3-Dichloropropene	<1.00 ug/L	104% / NA	102% / 100%		1.44%	
Dibromochloromethane	<1.00 ug/L	108% / NA	104% / 103%		0.868%	
Ethylbenzene	<1.00 ug/L	97.9% / NA	95.3% / 92.1%		3.38%	
Methylene chloride	<1.00 ug/L	108% / NA	106% / 104%		1.77%	
Tetrachloroethene	<1.00 ug/L	98.8% / NA	95.7% / 92.7%		3.27%	
Toluene	<1.00 ug/L	101% / NA	99.1% / 96.9%		2.18%	
trans-1,2-Dichloroethene	<1.00 ug/L	110% / NA	109% / 107%		1.66%	
trans-1,3-Dichloropropene	<1.00 ug/L	105% / NA	102% / 98.6%		3.56%	
Trichloroethene	<1.00 ug/L	102% / NA	99.4% / 99.3%		0.0245%	
Trichlorofluoromethane	<1.00 ug/L	98.9% / NA	99.9% / 95.1%		4.93%	
Vinyl chloride	<1.00 ug/L	95.3% / NA	94.7% / 92.6%		2.23%	
1,2-Dichloroethane-d4 [surr]	100 %	99.4% / NA	99.9% / 102%		NA	
4-Bromofluorobenzene [surr]	104 %	100% / NA	102% / 102%		NA	
Toluene-d8 [surr]	100 %	100% / NA	101% / 101%		NA	

30 January 2020

James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)
Project Number: January 2020
Date Received: 16-Jan-20 09:50



QUALITY CONTROL RESULTS

Total Metals -- Batch: B001262 (Water)

Prepared: 17-Jan-20 08:23 By: SP -- Analyzed: 17-Jan-20 10:38 By: SP

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Arsenic	<0.0235 mg/L	105% / NA	110% / 112%		1.91%	
Cadmium	<0.00120 mg/L	112% / NA	114% / 116%		1.59%	
Chromium	<0.0125 mg/L	113% / NA	112% / 114%		1.68%	
Copper	<0.00520 mg/L	109% / NA	106% / 107%		1.19%	
Lead	<0.0156 mg/L	115% / NA	111% / 112%		1.19%	
Molybdenum	<0.0312 mg/L	106% / NA	110% / 112%		1.54%	
Nickel	<0.0104 mg/L	111% / NA	109% / 110%		1.13%	
Selenium	<0.0520 mg/L	97.3% / NA	105% / 108%		2.79%	
Silver	<0.0208 mg/L	111% / NA	108% / 110%		1.84%	
Zinc	<0.0156 mg/L	107% / NA	111% / 114%		2.31%	

Wet Chemistry -- Batch: B001268 (Water)

Prepared: 17-Jan-20 08:30 By: TA -- Analyzed: 17-Jan-20 08:30 By: TA

<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	86.1% / 89.9%	NA / NA		4.30%	

Wet Chemistry -- Batch: B001279 (Water)

Prepared: 17-Jan-20 10:40 By: SPS -- Analyzed: 17-Jan-20 10:40 By: SPS

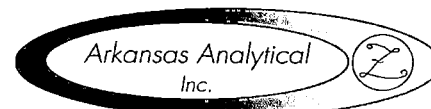
<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Cyanide (total)	<0.010 mg/L	109% / 103%	104% / NA		5.66%	

Wet Chemistry -- Batch: B001292 (Water)

Prepared: 20-Jan-20 07:54 By: JH -- Analyzed: 20-Jan-20 07:54 By: JH

<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	<5.00 mg/L	88.8% / 84.4%	81.5% / NA		5.05%	

30 January 2020



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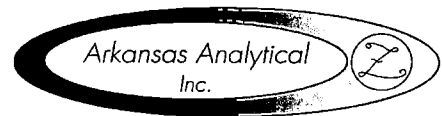
QUALITY CONTROL RESULTS

Base/Neutral Compounds -- Batch: B001303 (Water)

Prepared: 17-Jan-20 15:10 By: CT -- Analyzed: 20-Jan-20 17:01 By: CT

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,2,4-Trichlorobenzene	<1.14 ug/L	63.6% / NA	43.5% / 50.5%		17.8%	
1,2-Dichlorobenzene	<1.06 ug/L	57.3% / NA	39.7% / 46.3%		18.3%	%D1
1,2-Diphenyl Hydrazine	<1.81 ug/L	88.2% / NA	83.6% / 101%		22.2%	
1,3-Dichlorobenzene	<1.24 ug/L	55.4% / NA	38.1% / 45.5%		20.5%	
1,4-Dichlorobenzene	<1.39 ug/L	56.2% / NA	39.5% / 45.4%		16.7%	%D1
2,2'-Oxybis(1-Chloropropane)	<1.30 ug/L	74.9% / NA	52.7% / 60.4%		16.6%	%D1
2,3,7,8-TCDD Screen	< ug/L	NA / NA	NA / NA		NA	
2,4,6-Trichlorophenol	<1.42 ug/L	85.5% / NA	66.9% / 76.3%		15.9%	
2,4-Dichlorophenol	<1.35 ug/L	84.7% / NA	62.1% / 69.2%		13.8%	
2,4-Dimethylphenol	<1.15 ug/L	76.2% / NA	46.1% / 57.5%		24.9%	
2,4-Dinitrophenol	<2.55 ug/L	104% / NA	102% / 104%		5.31%	
2,4-Dinitrotoluene	<1.48 ug/L	94.8% / NA	83.6% / 91.5%		12.0%	
2,6-Dinitrotoluene	<1.24 ug/L	95.7% / NA	77.1% / 85.2%		12.8%	
2-Chloronaphthalene	<1.15 ug/L	72.3% / NA	52.2% / 59.5%		16.0%	%D1
2-Chlorophenol	<0.146 ug/L	77.0% / NA	53.2% / 60.9%		16.4%	
2-Nitrophenol	<1.20 ug/L	83.6% / NA	58.0% / 67.8%		18.5%	
3,3'-Dichlorobenzidine	<0.538 ug/L	97.0% / NA	85.0% / 93.4%		12.3%	
4,6-Dinitro-o-cresol	<0.172 ug/L	99.5% / NA	101% / 113%		13.5%	
4-Bromophenyl-phenylether	<1.38 ug/L	95.2% / NA	92.6% / 112%		21.6%	
4-Chloro-3-methylphenol	<0.410 ug/L	87.2% / NA	72.6% / 80.4%		13.1%	
4-Chlorophenyl-phenylether	<1.61 ug/L	82.2% / NA	65.2% / 72.8%		14.0%	
4-Nitrophenol	<2.40 ug/L	53.7% / NA	42.9% / 46.2%		10.3%	
Acenaphthene	<1.56 ug/L	75.1% / NA	55.6% / 61.8%		13.5%	
Acenaphthylene	<1.33 ug/L	77.5% / NA	58.5% / 64.9%		13.4%	
Anthracene	<1.26 ug/L	93.7% / NA	97.9% / 116%		19.6%	
Benzidine	<0.522 ug/L	57.4% / NA	50.9% / 67.7%		31.1%	E21
Benzo (a) anthracene	<1.20 ug/L	97.5% / NA	89.8% / 97.6%		11.3%	
Benzo[a]pyrene	<1.35 ug/L	103% / NA	93.3% / 103%		12.3%	
Benzo[b]fluoranthene	<1.39 ug/L	102% / NA	94.6% / 101%		9.63%	
Benzo[g,h,i]perylene	<1.58 ug/L	104% / NA	93.9% / 100%		9.24%	
Benzo[k]fluoranthene	<1.40 ug/L	98.0% / NA	90.0% / 97.2%		10.6%	
Bis(2-chloroethoxy)methane	<1.38 ug/L	85.1% / NA	57.1% / 64.3%		14.7%	
Bis(2-chloroethyl)ether	<1.27 ug/L	84.6% / NA	56.8% / 65.2%		16.7%	
Bis(2-ethylhexyl)phthalate	<1.78 ug/L	105% / NA	98.7% / 108%		11.8%	
Butylbenzylphthalate	<1.62 ug/L	103% / NA	95.5% / 105%		12.5%	
Chrysene	<1.22 ug/L	94.4% / NA	87.8% / 95.7%		11.5%	
Dibenz[a,h]anthracene	<0.903 ug/L	107% / NA	95.3% / 104%		11.4%	
Diethylphthalate	<2.72 ug/L	87.4% / NA	78.3% / 84.8%		10.9%	
Dimethylphthalate	<1.40 ug/L	87.7% / NA	73.2% / 81.7%		13.8%	
Di-n-butylphthalate	<1.04 ug/L	97.3% / NA	105% / 122%		16.4%	%D1
Di-n-octylphthalate	<1.79 ug/L	110% / NA	102% / 111%		11.8%	
Fluoranthene	<1.48 ug/L	94.9% / NA	89.1% / 98.1%		12.6%	
Fluorene	<1.90 ug/L	83.0% / NA	65.9% / 73.1%		13.2%	
Hexachlorobenzene	<1.34 ug/L	93.2% / NA	83.9% / 105%		24.9%	
Hexachlorobutadiene	<0.900 ug/L	65.1% / NA	43.7% / 51.4%		19.0%	
Hexachlorocyclopentadiene	<1.34 ug/L	67.1% / NA	39.1% / 46.4%		18.5%	

30 January 2020



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QUALITY CONTROL RESULTS

Base/Neutral Compounds -- Batch: B001303 (Water)
Prepared: 17-Jan-20 15:10 By: CT -- Analyzed: 20-Jan-20 17:01 By: CT

Table with 7 columns: Analyte, BLK, LCS / LCSD, MS / MSD, Dup, RPD, Qualifiers. Lists various chemical compounds and their recovery percentages.

Total Metals -- Batch: B001324 (Water)
Prepared: 22-Jan-20 08:32 By: SP -- Analyzed: 22-Jan-20 16:13 By: SP

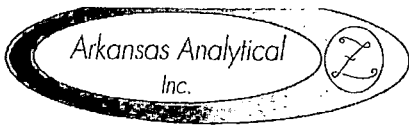
Table with 7 columns: Analyte, BLK, LCS / LCSD, MS / MSD, Dup, RPD, Qualifiers. Lists Mercury and its recovery percentage.

QUALIFIER(S)

- *%D1: Matrix Spike and/or Matrix Spike Duplicate Percent Recovery Does Not Meet Laboratory Acceptance Criteria
*%D3: Surrogate Percent Recovery Does Not Meet Laboratory Acceptance Criteria
*D: 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 the "parent sample" in MS/MSD prep.
*E21: Estimated Result; This Analyte failed (low) in the CCV.

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: [Signature]
Norma James and/or Teresa Coins
Technical Director and/or QA Officer



8100 National Dr.
 Little Rock, AR 72209
 PHONE: 501-455-3233
 FAX: 501-455-6118

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION				Project Description			Turnaround Time		Preservation Codes:																																																																									
Kohler 415 South Oklahoma St. Sheridan, AR 72150				Wastewater Sample Semi-Annual TTO/PPPS Reporting Information			1 Day (100%) 2 Day (50%) 3 Day (25%) 5 Day (Routine)		1. Cool, 6 Degrees Centigrade 2. Sulfuric Acid (H ₂ SO ₄), pH < 2 3. Nitric Acid (HNO ₃), pH < 2					4. Thiosulfate for Dechlorination 5. Hydrochloric Acid (HCl) 6. Sodium Hydroxide (NaOH), pH > 12																																																																				
Attn: James House				Telephone: 870-942-2111 Email: james.house@kohler.com; neal.hollinger@kohler.com; eric.lites@kohler.com; michael.lorenson@kohler.com			Preservative Code: Bottle Type:		<table border="1"> <tr> <th colspan="10">TEST PARAMETERS</th> <th colspan="2">Bottle Type Code</th> </tr> <tr> <td>1</td><td>1,6</td><td>1,3</td><td>1</td><td>1,4</td><td>1,4</td><td>1,2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>P</td><td>P</td><td>P</td><td>GV</td><td>GA</td><td>GA</td><td>GA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td colspan="16">G = Glass; P = Plastic V = Septum; A = Amber</td> </tr> </table>										TEST PARAMETERS										Bottle Type Code		1	1,6	1,3	1	1,4	1,4	1,2												P	P	P	GV	GA	GA	GA												G = Glass; P = Plastic V = Septum; A = Amber															
TEST PARAMETERS										Bottle Type Code																																																																								
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G = Glass; P = Plastic V = Septum; A = Amber																																																																																		
Sampler(s) Signature				Sampler(s) Printed												Arkansas Analytical Work Order Number:																																																																		
Field Number	SAMPLE COLLECTION		Grab	Comp	Number of Bottles	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION		BOD, TSS	Cyanide	As, Cd, Cr, Cu, Pb, Hg, Mo, Ni, Se, Ag, Zn	PPS Volatiles	PPS Base Neutral/Acids	PPS Pesticides/PCBs	Oil and Grease																																																																			
	1/15-16/2020	6 am		X	11	Water	Wastewater Composite		X		X	X	X	X			2001199																																																																	
	1-16-2020	6 am	X		2	Water	Wastewater Grab			X					X		01 02																																																																	
1. Relinquished by: (Signature)				Date/Time		2. Received by: (Signature)				SAMPLE CONDITION UPON RECEIPT IN LAB						REMARKS / SAMPLE COMMENTS																																																																		
<i>N.R. L...</i>				1/16/2020		Parrish				1. CUSTODY SEALS: <input checked="" type="checkbox"/> Yes ___ No 2. CONTAINERS CORRECT: <input type="checkbox"/> Yes ___ No 3. COC/LABELS AGREE: <input type="checkbox"/> Yes ___ No 4. RECEIVED ON ICE: <input type="checkbox"/> Yes ___ No 5. TEMPERATURE ON RECEIPT: 5 °C 6. TEMPERATURE GUN ID: HHT# 2						ONSITE MEASUREMENTS BY Kohler pH (S.U.) 7.52 Flow 25,000 gals * Lab completed collection date/time per NH email. TR 1-16-2020																																																																		
3. Relinquished by: (Signature)				Date/Time		4. Received by lab: (Signature)				FOR COMPLETION BY LAB ONLY																																																																								
Parrish				1-16-2020 950		Johnny Riddle																																																																												

Kohler Co
415. S. Oklahoma St.
Sheridan, AR. 72150

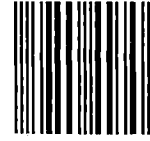
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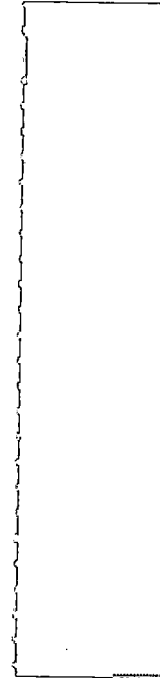
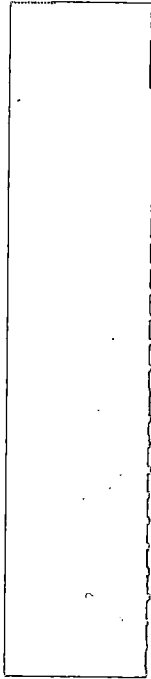


72118

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