

## Gage, Hannah

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**From:** Gilliam, Allen  
**Sent:** Monday, July 25, 2016 10:38 AM  
**To:** james house  
**Cc:** Gage, Hannah; Leamons, Bryan; 'sheridanwater@windstream.net'  
**Subject:** AR0034347\_KOHLER ARP000021 July 2016 semi annual Pretreatment report with comments\_20160725  
**Attachments:** doc23129220160725095943.pdf

James,

KOHLER's July 2016 semi-annual Pretreatment report was received and reviewed. Conversations by phone with you on 7/25 helped clarify the multiple analysis reported.

As this office noted on the attached, KOHLER's QA samples while not discharging do not qualify for compliance monitoring. Only samples taken/analyzed while KOHLER is discharging to the City's sewage collection system can be used for compliance purposes.

Please take note about this in future reports. Your own notations will help reviewers understand what the QA samples are meant for while not discharging.

KOHLER is in compliance with the reporting requirements in 40 CFR 403.12(e) and more specifically in compliance with the Metal Finishing standards in 40 CFR 433.15.

Thank you for your timely report.

Sincerely,

Allen Gilliam  
ADEQ State Pretreatment Coordinator  
501.682.0625

cc: David Fitzgerald, City of Sheridan Water and Wastewater Manager

E/NPDES/NPDES/Pretreatment/Reports

A2B57VW

July 13, 2016

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

**KOHLER.**

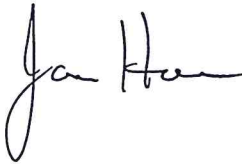
*complete/compliant  
w/clarifications &  
correction  
AG*

Re: SEMI-ANNUAL REPORT 1st HALF 2016

Dear Mr. Torrence,

In accordance with 40CFR403.12 (e) we are submitting semi-annual reports for the months January 1, 2016 through June 30, 2016. Attached with this report is the TTO/CN analysis for this period. Please contact me at 870-917-6215 should you have any questions.

Sincerely,



James House  
Safety/Environmental Specialist

RECEIVED <sup>AG</sup>  
JUL 18 2016

Attachments: TTO/CN Analysis for the 1st half of 2016

Cc: Jim Bilgo, EHS Supervisor, Kohler, WI  
Erika Strand, Global Faucets Program Coordinator  
David Fitzgerald, 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	
<p>A. LEGAL NAME &amp; MAILING ADDRESS  <b>KOHLER Company</b>                   Sheridan, AR 72150</p>	<p>B. FACILITY &amp; LOCATION ADDRESS                  415 S. Oklahoma St.                  Sheridan, AR 72150</p>
<p>C. FACILITY CONTACT: <b>JAMES HOUSE</b>                      TELEPHONE NUMBER: <b>870-942-2111</b></p>	
(2) REPORTING PERIOD-- FISCAL YEAR From January 1 to December 31 <span style="float: right; font-size: small;">(Both Semi-Annual Reports must cover Fiscal Year)</span>	
<p>A. MONTHS WHICH REPORTS ARE DUE  <b>JANUARY &amp; JULY</b></p>	<p>B. PERIOD COVERED BY THIS REPORT                  FROM: <b>January, 2016</b> TO: <b>June 30, 2016</b></p>
(3) DESCRIPTION OF OPERATION	
<p>A. REGULATED PROCESSES</p> <p style="text-align: center;"><u>CORE PROCESS(ES)</u></p> <p style="text-align: center; font-size: small;">CHECK EACH APPLICABLE BLOCK</p> <p><input checked="" type="checkbox"/> Electroplating</p> <p><input checked="" type="checkbox"/> Electroless Plating</p> <p><input type="checkbox"/> Anodizing</p> <p><input type="checkbox"/> Coating</p> <p><input type="checkbox"/> Chemical Etching and Milling</p> <p><input type="checkbox"/> Printed Circuit Board Manufacture</p> <p style="text-align: center;"><u>ANCILLARY PROCESS(ES)*</u></p> <p style="text-align: center; font-size: small;">LIST BELOW EACH PROCESS USED IN THE FACILITY</p> <p><u>BRAZING</u></p> <p><u>ACID/ALKALI CLEANING</u></p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p style="font-size: x-small;">*SEE 40CFR.10(a) FOR 40 DIFFERENT OPERATIONS</p>	<p>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.</p>
<p>C. Number of Regular Employees at this Facility                      <u>258</u></p>	<p>D. [Reserved]</p>

(4) FLOW MEASUREMENT

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

Process	Average	Maximum	Type of Discharge
Regulated (Core & Anc)	71,183	218,800	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	28,139	58,387	POTW Continuous
Total Flow to POTW	101,417	311,733	*****

\*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	<del>0.005</del>	<del>1.12</del>	<del>0.45</del>	<del>0.015</del>	<del>2.51</del>	<del>0.02</del>	<del>0.53</del>	<del>0.02</del>	<del>0.00</del>
* Ave Measured	<del>0.005</del>	<del>0.51</del>	<del>0.26</del>	<del>0.015</del>	<del>0.56</del>	<del>0.02</del>	<del>0.12</del>	<del>0.02</del>	<del>0.00</del>

\*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

\* conversations with James House indicated 4 samples are taken/analyzed per month. These are taken for their QA only while not discharging. The attached lab results are the data used to determine compliance (which they are).



**(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) TIO 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 instrument(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 \_\_\_\_\_ 2016

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County, Arkansas

My commission expires \_\_\_\_\_.

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

16602 [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

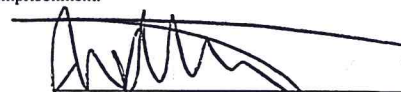
ATTACHMENTS:  
TTO/CN Analysis  
Semi-Annual Metals Analysis

cc: Erika Strand - KOHLER EHS  
David Fitzgerald - Sheridan Waterworks  
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.

William Armstrong  
NAME OF CORPORATE OFFICIER OR AUTHORIZED REPRESENTATIVE

  
SIGNATURE

Director of Arkansas Faucet Operations  
OFFICIAL TITLE

7/14/16  
DATE SIGNED

SEMI-ANNUAL REPORT CALCULATION WORKSHEET (January-June)

Process	Average	Maximum	Type of Discharge
Regulated (Core & Anc)	71183	218800	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	28139	58387	POTW Continuous
Total Flow to POTW	101,417.39	311,732.83	*****

TOTAL H2O TO PLANT*	NUMBER OF DAYS	AVERAGE GALLONS PER DAY	TOTAL H2O TREATED**	% OF H2O TREATED	MAXIMUM DAY TREATED**	MAXIMUM GALLONS PER DAY
18,275,300	184	99322	13,097,700	71.7%	147700	206087

D6

TOTAL H2O TREATED**	NUMBER OF DAYS	AVERAGE REGULATED GALLONS TOTAL	AVERAGE GALLONS PER DAY	AVERAGE SANITARY	MAXIMUM DAY TREATED**	MAXIMUM GALLONS PER DAY	MAXIMUM SANITARY
13,097,700	184	71183	99322	28139	147700	206087	58387
	71183.15217	C12	D12		F12		

\*NUMBERS FROM WATER BILLS

\*\*NUMBERS FROM THE ECOLOGY LOG BOOK

Location	USAGES					
	To Plater	NE Front	SE Front	Plastics	Toilet Seats	Toilet Seats
Meter #	4097500	4098000	4099000	4100000	4110000	4111000
January	425,200	251,600	2,000,000		507,300	44,400
February	551,200	344,200	1,416,000		74,600	35,900
March	455,600	320,200	3,900,000		296,700	33,800
April	460,300	334,200	0		524,900	72,500
May	422,400	235,400	1,731,000		369,200	34,300
June	523,600	290,800	1,985,000		583,300	51,700
6MO Total	2,838,300	1,776,400	11,032,000	0	2,356,000	272,600

Faucet Plant Total 18,660,800

\* See page 2. These are for internal QA only, Not discharging.

	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
January			0.98	0.49	0.31	0.26			1.35	0.63			0.21	0.14				
February			0.58	0.36	0.33	0.19			0.44	0.3			0.13	0.12				
March			1.12	0.68	0.45	0.31			0.36	0.27			0.13	0.09				
April			1.09	0.53	0.38	0.23			0.39	0.27			0.08	0.07				
May			1.06	0.68	0.38	0.34			2.51	1.33			0.15	0.11				
June	0.005	0.005	0.5	0.33	0.3	0.21	0.015	0.015	1.14	0.53	0.02	0.02	0.53	0.17			0.02	0.02
Max Measured		0.005		1.12		0.45		0.015		2.51		0.02		0.53		0		0.02
Avg Measured		0.005		0.511666667		0.26		0.015		0.555		0.02		0.12		0		0.02



DATE	GALLONS	DATE	GALLONS
5/1/16	Sunday	6/1/16	109800
5/2/16	117900	6/2/16	100900
5/3/16	91800	6/3/16	106200
5/4/16	106800	6/4/16	Saturday
5/5/16	111200	6/5/16	Sunday
5/6/16	66600	6/6/16	106600
5/7/16	15400	6/7/16	108000
5/8/16	Sunday	6/8/16	107500
5/9/16	93800	6/9/16	114800
5/10/16	91700	6/10/16	78700
5/11/16	109600	6/11/16	Saturday
5/12/16	91800	6/12/16	Sunday
5/13/16	76700	6/13/16	91800
5/14/16	Saturday	6/14/16	100200
5/15/16	Sunday	6/15/16	99100
5/16/16	91700	6/16/16	99600
5/17/16	96900	6/17/16	25000
5/18/16	107800	6/18/16	Saturday
5/19/16	94300	6/19/16	Sunday
5/20/16	52600	6/20/16	103900
5/21/16	5500	6/21/16	105000
5/22/16	Sunday	6/22/16	109900
5/23/16	109100	6/23/16	107800
5/24/16	115500	6/24/16	65300
5/25/16	117000	6/25/16	27500
5/26/16	105400	6/26/16	Sunday
5/27/16	shutdown	6/27/16	89700
5/28/16	Saturday	6/28/16	109800
5/29/16	Sunday	6/29/16	102600
5/30/16	hoilday	6/30/16	91300
5/31/16	108600		
	94176		93956

1977700

2161000



DATE	GALLONS	DATE	GALLONS	Date	GALLONS	DATE	GALLONS
1/1/16	Holiday	2/1/16	97900	3/1/16	115000	4/1/16	71000
1/2/16	Saturday	2/2/16	112300	3/2/16	102000	4/2/16	41800
1/3/16	Sunday	2/3/16	117000	3/3/16	98000	4/3/16	Sunday
1/4/16	97600	2/4/16	106400	3/4/16	42500	4/4/16	100900
1/5/16	94700	2/5/16	80200	3/5/16	15500	4/5/16	90500
1/6/16	113600	2/6/16	45300	3/6/16	Sunday	4/6/16	89000
1/7/16	88400	2/7/16	Sunday	3/7/16	83000	4/7/16	93800
1/8/16	51000	2/8/16	90600	3/8/16	111500	4/8/16	63900
1/9/16	48700	2/9/16	95500	3/9/16	129600	4/9/16	41400
1/10/16	48400	2/10/16	101400	3/10/16	104600	4/10/16	Sunday
1/11/16	96000	2/11/16	96400	3/11/16	Inventory	4/11/16	104200
1/12/16	105900	2/12/16	81500	3/12/16	Saturday	4/12/16	110000
1/13/16	96900	2/13/16	42700	3/13/16	Sunday	4/13/16	115500
1/14/16	116400	2/14/16	Sunday	3/14/16	129800	4/14/16	108500
1/15/16	90800	2/15/16	118700	3/15/16	116200	4/15/16	74500
1/16/16	37900	2/16/16	108700	3/16/16	124900	4/16/16	Saturday
1/17/16	36500	2/17/16	109700	3/17/16	113400	4/17/16	Sunday
1/18/16	102800	2/18/16	107400	3/18/16	80000	4/18/16	106100
1/19/16	114700	2/19/16	85000	3/19/16	57000	4/19/16	97900
1/20/16	103200	2/20/16	48600	3/20/16	25200	4/20/16	103600
1/21/16	99900	2/21/16	16200	3/21/16	100800	4/21/16	95600
1/22/16	34000	2/22/16	105500	3/22/16	100200	4/22/16	73300
1/23/16	59800	2/23/16	108900	3/23/16	89200	4/23/16	57200
1/24/16	36600	2/24/16	124500	3/24/16	84600	4/24/16	Sunday
1/25/16	101100	2/25/16	99300	3/25/16	Holiday	4/25/16	113000
1/26/16	107700	2/26/16	49300	3/26/16	Saturday	4/26/16	115100
1/27/16	100300	2/27/16	51000	3/27/16	Sunday	4/27/16	121800
1/28/16	106700	2/28/16	39200	3/28/16	90400	4/28/16	117200
1/29/16	56300	2/29/16	94500	3/29/16	89000	4/29/16	56900
1/30/16	52100			3/30/16	105000	4/30/16	3300
1/31/15	51300			3/31/16	102600		
<b>AVERAGE</b>	<b>80332</b>		<b>86433</b>		<b>92083</b>		<b>86640</b>
<b>TOTALS</b>	<b>2249300</b>		<b>2333700</b>		<b>2210000</b>		<b>2166000</b>



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

23 June 2016

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

Project: Semiannual Wastewater Sample(s)  
Project Number: June 2016  
SDG Number: 1606235

Enclosed are the results of analyses for samples received by the laboratory on 14-Jun-16 16:42. 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>	✓
<u>Temperature on Receipt</u>	4.0°C

Sincerely,

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

---

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

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23 June 2016

James House  
Kohler-Plating - Sheridan  
415 S Oklahoma St.  
Sheridan, AR 72150  
Project: Semiannual Wastewater Sample(s)  
Project Number: June 2016  
Date Received: 14-Jun-16 16:42



**CASE NARRATIVE**

Sample Delivery Group – 1606235

One OR more of the qualifiers described below may appear in this report.

QUALITY CONTROL QUALIFIERS:

<u>Qualifier</u>	<u>Description</u>
E20	Sample used as "parent" for the associated analytical batch.
%D3/S-01 / E1	Surrogate failed to recover within acceptance criteria (%D3/S-01). 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 the high concentration of analyte in the parent sample.
MBI	Failed criteria due an interference in the parent sample.
%D3	Quality Control Surrogate failed acceptance criteria.
NREC	Quality Control Surrogate failed.

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.
E5	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

SAMPLE RECEIPT QUALIFIERS:

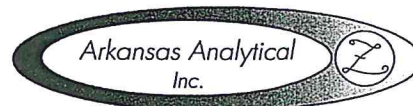
<u>Qualifier</u>	<u>Description</u>
ET	Samples received above required temperature.
ET	Samples received above required temperature. Although collected and received the same day, no ice was present to indicate the cooling preservation was attempted.
E2	Result qualified as it was received and analyzed outside of holding time. Analysis is considered a "Field" analysis.
E2	Result qualified as it was received and/or analyzed outside of holding time.
E3	Result qualified as it was received in the incorrect container and/or preservation.



23 June 2016

James House  
Kohler-Plating - Sheridan  
415 S Oklahoma St.  
Sheridan, AR 72150  
Project: Semiannual Wastewater Sample(s)

Project Number: June 2016  
Date Received: 14-Jun-16 16:42

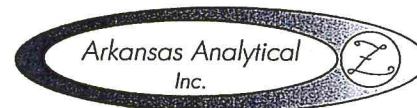


## ANALYTICAL RESULTS

Lab Number: 1606235-01  
Sample Name: Wastewater Composite  
Date/Time Collected: 6/14/16 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	< 10.0		6/16/16 22:45	B606258	625 (mod.)
2,4-Dichlorophenol	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
2,4-Dimethylphenol	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
2,4-Dinitrophenol	ug/L	< 10.0	E21	6/16/16 22:45	B606258	625 (mod.)
2-Chlorophenol	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
2-Nitrophenol	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
4-Chloro-3-methylphenol	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
4-Nitrophenol	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
4,6-Dinitro-2-methylphenol	ug/L	< 10.0	E21	6/16/16 22:45	B606258	625 (mod.)
Pentachlorophenol	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Phenol	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
2,4,6-Tribromophenol [surr]	%	80.3		6/16/16 22:45	B606258	625 (mod.)
2-Fluorophenol [surr]	%	40.4		6/16/16 22:45	B606258	625 (mod.)
Phenol-d5 [surr]	%	33.3		6/16/16 22:45	B606258	625 (mod.)
<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	E20	6/16/16 22:45	B606258	625 (mod.)
1,2-Dichlorobenzene	ug/L	< 10.0	E20	6/16/16 22:45	B606258	625 (mod.)
1,2-Diphenyl Hydrazine	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
1,3-Dichlorobenzene	ug/L	< 10.0	E20	6/16/16 22:45	B606258	625 (mod.)
1,4-Dichlorobenzene	ug/L	< 10.0	E20	6/16/16 22:45	B606258	625 (mod.)
2,3,7,8-TCDD Screen	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
2,4-Dinitrotoluene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
2,6-Dinitrotoluene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
2-Chloronaphthalene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
3,3'-Dichlorobenzidine	ug/L	< 10.0	E-01	6/16/16 22:45	B606258	625 (mod.)
4-Bromophenyl-phenylether	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
4-Chlorophenyl-phenylether	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Acenaphthene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Acenaphthylene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Anthracene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Benzidine	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Benzo[a]pyrene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Benzo[b]fluoranthene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Benzo[g,h,i]perylene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Benzo[k]fluoranthene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Benzo (a) anthracene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Bis(2-chloroethoxy)methane	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Bis(2-chloroethyl)ether	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Bis(2-chloroisopropyl)ether	ug/L	< 10.0	E20	6/16/16 22:45	B606258	625 (mod.)
Bis(2-ethylhexyl)phthalate	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Butylbenzylphthalate	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Chrysene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Dibenz[a,h]anthracene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)

23 June 2016



James House  
 Kohler-Plating - Sheridan  
 415 S Oklahoma St.  
 Sheridan, AR 72150  
 Project: Semiannual Wastewater Sample(s)  
 Project Number: June 2016  
 Date Received: 14-Jun-16 16:42

## ANALYTICAL RESULTS

Lab Number: 1606235-01  
 Sample Name: Wastewater Composite  
 Date/Time Collected: 6/14/16 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>
Diethylphthalate	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Dimethylphthalate	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Di-n-butylphthalate	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Di-n-octylphthalate	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Fluorene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Hexachlorobenzene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Hexachlorobutadiene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Hexachlorocyclopentadiene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Hexachloroethane	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Indeno[1,2,3-cd]pyrene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Isophorone	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Naphthalene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Nitrobenzene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
N-Nitrosodimethylamine	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
N-Nitroso-di-n-propylamine	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
N-Nitrosodiphenylamine/diphenylamine	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Phenanthrene	ug/L	< 10.0		6/16/16 22:45	B606258	625 (mod.)
Pyrene	ug/L	< 10.0	E20	6/16/16 22:45	B606258	625 (mod.)
2-Fluorobiphenyl [surr]	%	44.3		6/16/16 22:45	B606258	625 (mod.)
Nitrobenzene-d5 [surr]	%	56.6		6/16/16 22:45	B606258	625 (mod.)
Terphenyl-d14 [surr]	%	71.7		6/16/16 22:45	B606258	625 (mod.)
<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	E21	6/16/16 17:19	B606231	608
alpha-BHC	ug/L	< 0.050	E21	6/16/16 17:19	B606231	608
beta-BHC	ug/L	< 0.050		6/16/16 17:19	B606231	608
gamma-BHC (Lindane)	ug/L	< 0.050	E21	6/16/16 17:19	B606231	608
delta-BHC	ug/L	< 0.050		6/16/16 17:19	B606231	608
Chlordane	ug/L	< 0.200		6/16/16 17:19	B606231	608
4,4'-DDT	ug/L	< 0.020		6/16/16 17:19	B606231	608
4,4'-DDE	ug/L	< 0.100		6/16/16 17:19	B606231	608
4,4'-DDD	ug/L	< 0.100	E21	6/16/16 17:19	B606231	608
Dieldrin	ug/L	< 0.020	E21	6/16/16 17:19	B606231	608
Endosulfan I	ug/L	< 0.010	E21	6/16/16 17:19	B606231	608
Endosulfan II	ug/L	< 0.020		6/16/16 17:19	B606231	608
Endosulfan sulfate	ug/L	< 0.100		6/16/16 17:19	B606231	608
Endrin	ug/L	< 0.020		6/16/16 17:19	B606231	608
Endrin aldehyde	ug/L	< 0.100		6/16/16 17:19	B606231	608
Heptachlor	ug/L	< 0.010		6/16/16 17:19	B606231	608
Heptachlor epoxide	ug/L	< 0.010		6/16/16 17:19	B606231	608
Chlorpyrifos	ug/L	< 0.070		6/16/16 17:19	B606231	608
Aroclor-1242	ug/L	< 0.200		6/16/16 17:19	B606231	608
Aroclor-1254	ug/L	< 0.200		6/16/16 17:19	B606231	608
Aroclor-1221	ug/L	< 0.200		6/16/16 17:19	B606231	608





James House  
 Kohler-Plating - Sheridan  
 415 S Oklahoma St.  
 Sheridan, AR 72150  
 Project: Semiannual Wastewater Sample(s)  
 Project Number: June 2016  
 Date Received: 14-Jun-16 16:42

**ANALYTICAL RESULTS**

Lab Number: 1606235-01  
 Sample Name: Wastewater Composite  
 Date/Time Collected: 6/14/16 6:00  
 Sample Matrix: Water

Pesticides/PCBs	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
Aroclor-1232	ug/L	< 0.200		6/16/16 17:19	B606231	608
Aroclor-1248	ug/L	< 0.200		6/16/16 17:19	B606231	608
Aroclor-1260	ug/L	< 0.200		6/16/16 17:19	B606231	608
Aroclor-1016	ug/L	< 0.200		6/16/16 17:19	B606231	608
Toxaphene	ug/L	< 0.300		6/16/16 17:19	B606231	608
TCMX [surr]	%	40.1		6/16/16 17:19	B606231	608
DCBP [surr]	%	54.0		6/16/16 17:19	B606231	608

\*  
 See Page 2

Total Metals	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
Arsenic	mg/L	< 0.0104	E35	6/20/16 14:47	B606277	200.7, Rev 4.4 (1994)
Cadmium	mg/L	< 0.000520		6/20/16 14:47	B606277	200.7, Rev 4.4 (1994)
Chromium	mg/L	0.110		6/20/16 14:47	B606277	200.7, Rev 4.4 (1994)
Copper	mg/L	0.180		6/20/16 14:47	B606277	200.7, Rev 4.4 (1994)
Lead	mg/L	< 0.0156		6/20/16 14:47	B606277	200.7, Rev 4.4 (1994)
Mercury	mg/L	< 0.000200		6/17/16 12:00	B606271	7470A/245.1,3.0- 1994
Molybdenum	mg/L	< 0.0312		6/20/16 14:47	B606277	200.7, Rev 4.4 (1994)
Nickel	mg/L	0.274		6/20/16 14:47	B606277	200.7, Rev 4.4 (1994)
Selenium	mg/L	< 0.0520		6/20/16 14:47	B606277	200.7, Rev 4.4 (1994)
Silver	mg/L	< 0.0208		6/20/16 14:47	B606277	200.7, Rev 4.4 (1994)
Zinc	mg/L	0.0899	6/20/16 14:47	B606277	200.7, Rev 4.4 (1994)	

Volatiles	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
1,1-Dichloroethane	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
1,1-Dichloroethene	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
1,1,1-Trichloroethane	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
1,1,2-Trichloroethane	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
1,1,2,2-Tetrachloroethane	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
1,2-Dichlorobenzene	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
1,2-Dichloropropane	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
1,2-Dichloroethane	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
1,3-Dichlorobenzene	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
1,4-Dichlorobenzene	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
2-Chloroethyl vinyl ether	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Acrylonitrile	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Benzene	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Bromodichloromethane	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Bromoform	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Acrolein	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Bromomethane	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Carbon tetrachloride	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Chlorobenzene	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Chlorodibromomethane	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Chloroethane	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Chloroform	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995



23 June 2016



James House  
Kohler-Plating - Sheridan  
415 S Oklahoma St.  
Sheridan, AR 72150  
Project: Semiannual Wastewater Sample(s)  
Project Number: June 2016  
Date Received: 14-Jun-16 16:42

**ANALYTICAL RESULTS**

Lab Number: 1606235-01  
Sample Name: Wastewater Composite  
Date/Time Collected: 6/14/16 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>
Chloromethane	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
cis-1,3-Dichloropropene	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Ethylbenzene	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Methylene chloride	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Tetrachloroethene	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Toluene	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
trans-1,2-Dichloroethene	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Trichloroethene	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
trans-1,3-Dichloropropene	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Vinyl chloride	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
Dichlorodifluoromethane	ug/L	< 10.0		6/17/16 16:54	B606267	624 (mod.), 1995
4-Bromofluorobenzene [surr]	%	105		6/17/16 16:54	B606267	624 (mod.), 1995
1,2-Dichloroethane-d4 [surr]	%	99.6		6/17/16 16:54	B606267	624 (mod.), 1995
Toluene-d8 [surr]	%	88.3		6/17/16 16:54	B606267	624 (mod.), 1995
<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	11.6	E2	6/16/16 11:00	B606235	5210 B-2001,Hach 10360
Cyanide (total)	mg/L	< 0.010		6/20/16 14:29	B606229	4500-CN B,E-1999
TSS	mg/L	4.00		6/17/16 11:40	B606263	2540 D-1997

**ANALYTICAL RESULTS**





Lab Number: 1606235-02  
Sample Name: Wastewater Grab  
Date/Time Collected: 6/14/16 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>
Oil and Grease	mg/L	< 3.50		6/15/16 16:37	B606230	1664 Mod, Rev. B 2010



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				Semi-Annual Wasetwater Sample				1 Day (100%)		1. Cool, 4 Degrees Centigrade				4. Thiosulfate for Dechlorination						
415 South Oklahoma St.								2 Day (50%)		2. Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> ), pH < 2				5. Hydrochloric Acid(HCl)						
Sheridan, AR 72150				Reporting Information				3 Day (25%)		3. Nitric Acid (HNO <sub>3</sub> ), pH < 2				6. Sodium Hydroxide (NaOH), pH > 12						
Attn: James House				Telephone: 870-942-2111				5 Day (Routine)		TEST PARAMETERS								Bottle Type Code		
				Email: james.house@kohler.com, joe.mcelroy@kohler.com, neal.hollinger@kohler.com				Preservative Code:		1	1,6	1,3	1	1	1	1,2			G = Glass; P = Plastic	
								Bottle Type:		P	P	P	GV	GA	GA	GA			V = Septum; A = Amber	
 Sampler(s) Signature				Mike Lorenson Sampler(s) Printed														Arkansas Analytical Work Order Number:  1600235		
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 Pesticides/PCBs	PPS Base Neutral/Acids	Oil and Grease					
	6/13-6/14/2016	6 AM-6 AM		X	9	Water	Wastewater Composite		X	X	X	X	X	X						
	6/14/2016	6 AM	X		1	Water	Wastewater Grab								X					
	6/14/2016	6 AM	X		1	Water	Wastewater Grab - Lab QC Sample								X					
1. Relinquished by: (Signature)		Date/Time		2. Received by: (Signature)		SAMPLE CONDITION UPON RECEIPT IN LAB				REMARKS / SAMPLE COMMENTS										
		6/14/2016 8:20 AM				1. CUSTODY SEALS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. CONTAINERS CORRECT: <input type="checkbox"/> Yes <input type="checkbox"/> No 3. COC/LABELS AGREE: <input type="checkbox"/> Yes <input type="checkbox"/> No 4. RECEIVED ON ICE: <input type="checkbox"/> Yes <input type="checkbox"/> No 5. TEMPERATURE ON RECEIPT: 4 °C 6. TEMPERATURE GUN ID: HHT# 2				ONSITE MEASUREMENTS BY Kohler pH (S.U.) Flow										
3. Relinquished by: (Signature)		Date/Time		4. Received by lab: (Signature)		FOR COMPLETION BY LAB ONLY														
		1642 6-14-16		