

Henderson, Katie

From: Torrence, Rufus
Sent: Friday, September 30, 2011 9:08 AM
To: 'House James'
Subject: AFIN 27-00004 ARP000021 Kohler Site Visit for Compliance Assurance: Inspection
Attachments: KLR Insp 20110921.doc; Kohler Lab Results.xls

ADEQ

ARKANSAS
Department of Environmental Quality

September 30, 2011

James House
Kohler, Inc
415 South Oklahoma St
Sheridan, AR 72150

Re: September 21, 2011 Site Visit for Compliance Assurance: Inspection
(Tracking No. ARP000021 AFIN 27-00004)

Dear Mr. House:

Part of ADEQ responsibility to EPA is to ensure that inspections of industries regulated by categorical pretreatment standards (40 CFR Part 405 – 471) are performed on a periodic basis. These industries are referred to as Categorical Industrial Users (CIUs) if they discharge the regulated wastewater into the local Publicly Owned Treatment Works (POTW). Kohler has processes (Electroplating, Electroless Plating, etc) in the Sheridan facility that are regulated by 40 CFR Part 433 and discharges regulated wastewater to the City of Sheridan POTW. Therefore, Kohler is a CIU. In accordance to 40 CFR 403.12(e), Kohler must submit periodic reports to the Control Authority (ADEQ or Department) and in accordance with 40 CFR 403.8(f)(2)(v) be inspected by the Control Authority at least bi-annually. The Department appreciates Kohler taking the time on Wednesday (September 21, 2011) to show the ADEQ Engineer/Inspector (Rufus Torrence) the facility in Sheridan.

The inspection consisted of inspecting the plating operations and the treatment system. These operations (electroless plating and electroplating) are core operations. Core operations are the key processes in determining the applicability of the 40CFR433 category. The Sheridan plant makes brass and plastic faucets. The plastic parts are electroless plated with palladium/nickel and then electroplated with copper. The

copper plated plastic and brass parts are then electroplated with chrome. Kohler has no open floor drains in the plant which connect directly to the POTW. Wastewater enters open floor drains and flows to the pretreatment system. The pretreatment system has four primary feed streams (Hex Chrome, Nickel, Copper and Rinse wastewater). The Hex Chrome in the wastewater is reduced to Tri-valent Chrome and combined with the other three streams. The combined streams are treated, sampled, metered and discharged to the POTW.

According to 40CFR433.12(a) Kohler may submit a Toxic Organic Management Plan in lieu of sampling for TTOs; presently, Kohler is required to sample for the 110 toxic organic, seven metals and total cyanide for each semi-annual report. Kohler may review the EPA Guidance Manual for Implementing Total Toxic Organics Pretreatment Standards by accessing this web site:

<http://www.epa.gov/npdes/pubs/owm0021.pdf>

Kohler can find an example of a Toxic Organic Management Plan in Appendix D of this manual.

During the inspection, the inspector took a sample of the regulated wastewater that was entering the local POTW. The ADEQ lab analysis is attached. The wastewater complies with the limits in 40 CFR 433.

Kohler must continue sampling (at least semi-annually) all regulated wastewater for all 40 CFR 433 parameters before it enters the POTW.

The Department appreciates Kohler's continued efforts in periodic reporting.

If you have any questions or concerns, please contact the Department at (501) 682-0626 or torrence@adeq.state.ar.us .

Sincerely,




Rufus Torrence,
ADEQ Engineer/Inspector

Attachments: ADEQ Lab Analysis
ADEQ Inspection Report dated [September 21, 2011](#)

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
5901 NORTHSIDE DRIVE / NORTH LITTLE ROCK / ARKANSAS 72118-9317 / TELEPHONE 501-682-0744 / FAX 501-687-0511
www.adeq.state.ar.us

Pretreatment Industrial Inspection

Facility Information

Facility Name:		Site Address:	
Kohler (formerly Sterling Plumbing Group)		415 South Oklahoma St / Sheridan, AR 72150	
Signatory Authority (Name & Title): Bill Royals, Director			
Phone: (870) 942-2111		Mailing Address (if different):	
Fax:		P O Box 427 / Sheridan, AR 72150	
Address: (Same)		Corporate Owner Name and address (if applicable):	
		Kohler Co	
Phone:		Kohler, WI	
Fax:		Phone:	
Contact Person (Name & Title):		Fax:	
James House, Safety Specialist		Corporate Contact: James Bilgo, Supv EH&S Program Management	
e-mail: james.house@kohler.com		e-mail: james.bilgo@kohlerco.com	
Facility Permit # N/A or ARP000021		Last Inspection Date: 9-16-09	
POTW (City) IU discharges to:		POTW's NPDES #AR0034347	
Industrial Classification:	<input checked="" type="checkbox"/> 2 Categorical	<input type="checkbox"/> Significant	AFIN 27-00004
If Categorical, list which CFR #(s) the facility is subject to: 40 CFR Part 433			
<i>Table of Contents</i>			
I. Summary of Inspection		Page	of
A. Inspection Objectives			
B. Inspection Analysis			
II. Pre-Inspection Meeting		Page	of
A. General Information			
B. Facility Permits			
C. Additional Comments			
III. Attachments "Yes" indicates item exists at the facility and attachments will be included			
"No" indicates item does not exist at the facility and attachments aren't necessary			
A. Industrial Processes		yes 2 no <input type="checkbox"/> Page	of
B. Pollution Prevention Activities		yes 2 no <input type="checkbox"/> Page	of
C. Pretreatment System		yes 2 no <input type="checkbox"/> Page	of
D. Chemical Storage		yes 2 no <input type="checkbox"/> Page	of
E. Spill/Slug Control Plan		yes 2 no <input type="checkbox"/> Page	of
F. Self-Monitoring/TOMP		yes 2 no <input type="checkbox"/> Page	of
Comments :			
Inspector's Name (Print):			
Rufus Torrence		Signature:	
IU Rep's Name (Print)		Signature: (Not Required)	
James House			
Date and Time Inspection Ended: September 21, 2011 @ 11:30 am			

I. Summary of Inspection			
A. Inspection and Objective (Complete Before Inspection)			
<input type="checkbox"/> Permit Renewal	2 Bi-Annual	<input type="checkbox"/> Spill/Slug	<input type="checkbox"/> Unscheduled
<input type="checkbox"/> New Construction	<input type="checkbox"/> Noncompliance	<input type="checkbox"/> Follow-up	<input type="checkbox"/> Complaint
Inspection Objective(s): Compliance Assurance			
Checklist of items to be reviewed and/or visually inspected:			
2 Pre-inspection Meeting	<input type="checkbox"/> Permit Conditions	<input type="checkbox"/> Safety Concerns	
2 Process Inspection	2 Pretreatment Process	<input type="checkbox"/> TOMP	
2 Chemical Storage	2 Discharge point(s)	2 Spills/Slug Control Plan	
<input type="checkbox"/> Records Review	<input type="checkbox"/> RCRA information	<input type="checkbox"/> Process/Flow/Pretreatment Schematics	
2 IU sampling procedures	<input type="checkbox"/> Flow/pH Meter(s)	2 Calibration Records	
<input type="checkbox"/> MSDS Inventory List	<input type="checkbox"/> New MSDS	<input type="checkbox"/>	
Comments:			
B. Inspection Analysis			
Were there any deficiencies/violations identified and noted during the inspection? <input type="checkbox"/> Yes 2 No			
Provide a brief narrative of deficiencies/violations or other concerns in the following areas:			
Records Review			
Process Area(s)			
Pretreatment System			
Self Monitoring Procedures			
Diversion/Sewer Meters			
Spill/Slug Control Plan			
Sampling Point			
Chemical Storage: Ascertain that sanitary manhole in this area is sealed			

II. Pre-Inspection Meeting			
A. General Information			
Date and Time Inspection Started: September 21, 2011 @ 9:50 am		SIC code(s): 3432	
IU Reps/Titles		Control Authority Reps/Titles	
James House, Safety Specialist		Rufus Torrence, Water Div Engineer	
Jeremy Hill, Quality Technical Analyst			
End product(s): Faucet Fittings & Assemblies		Approx. # of units produced:	
Days of Operation: Monday thru Friday		Days of Production (if different): N/A	
Hours of Operation: 6:30 am thru 11:00 pm		Hours of Production (if different):	
Shift 1, hrs.: 6:30 to 11:00 am	Shift 2, hrs.: 2:30 to 11:00 pm	Shift 3, hrs.: to	
# of Employees: 580	Peak Mos.:	"Off" Mos.:	
Are there any scheduled plant shutdowns? Yes <input type="checkbox"/> No 2 N/A <input type="checkbox"/> If yes, when?			
Are there designated plant clean-up days? Yes <input type="checkbox"/> No 2 N/A <input type="checkbox"/> If yes, when?			
Is the facility currently in compliance with all pretreatment reporting requirements and limits? Yes 2 No <input type="checkbox"/>			
If No, explain:			
Are there any Special Entry Procedures for the Discharge/Sample point locations? Yes <input type="checkbox"/> No 2			
If Yes, explain:			
Are there any Safety Concerns or Identified Hazards that the inspector should be aware of: 2 Yes. <input type="checkbox"/> No			
If Yes, explain: Safety Glasses / Shoes / Hearing Protection			
<i>Has there been any changes since the last inspection regarding the following items:</i>			
Processes? Yes <input type="checkbox"/> No 2 If yes, obtain copy of updated schematic for facility file.			
Processes? Yes <input type="checkbox"/> No 2 If yes, explain:			
Production Levels? Plant/flow/process layout Yes <input type="checkbox"/> No 2 If yes, explain:			
Raw materials? Yes <input type="checkbox"/> No 2 If yes, explain:			
Flow rates? Yes <input type="checkbox"/> No 2 If yes, explain			
Are regulated and non-regulated wastestreams combined? yes <input type="checkbox"/> no 2			
Prior to Pretreatment System? yes <input type="checkbox"/> no 2 N/A <input type="checkbox"/>			
If Yes, was the CWF used to calculate limits? yes <input type="checkbox"/> no <input type="checkbox"/>			
Prior to connection to the POTW sanitary sewer? yes <input type="checkbox"/> no <input type="checkbox"/> N/A 2			
At connection to sanitary sewer? yes <input type="checkbox"/> no <input type="checkbox"/> N/A 2			
Production and flows verified for Production-Based Standards? yes <input type="checkbox"/> no <input type="checkbox"/> N/A 2			
What is the current avg. production rate and process flow? N/A			
Is the prod. rate or flow substantially different (+/- 20%) from those used in calculating limits? yes <input type="checkbox"/> no <input type="checkbox"/> N/A 2			

<i>Attachment A: Industrial Process(es)</i>			
List process(es) generating wastewater. Note if it's categorical (federally regulated w/pretreatment limits) or not			
1. Electroplating	Yes 2 No <input type="checkbox"/>	4.	Yes <input type="checkbox"/> No <input type="checkbox"/>
2. Electroless Plating	Yes 2 No <input type="checkbox"/>	5.	Yes <input type="checkbox"/> No <input type="checkbox"/>
3. Brazen Contact CW	Yes 2 No <input type="checkbox"/>	6.	Yes <input type="checkbox"/> No <input type="checkbox"/>
Were processes visually inspected? Yes 2 No <input type="checkbox"/> N/A <input type="checkbox"/>			
Brief description of process(es): Kohler plates palladium, nickel, copper & chrome on molded plastic and brass parts (faucets).			
General observations of facility's indoor housekeeping: Fair			
General observations of area outside facility's building: Good			
Check all sources of wastewater being discharged into the City's collection system. Indicate avg. gal/day, measured (M) or estimated (E). If batch (B) discharged, list frequency and volume (1000 gal/month, e.g.).			
2 Process Rinse Overflows	<input type="checkbox"/> Equip. Cleanup	<input type="checkbox"/> Floor Cleanup	<input type="checkbox"/> Spent Bath Solutions
2 Product Cleaning	<input type="checkbox"/> Forklifts Maint./Wash	<input type="checkbox"/> Tank Dragout	<input type="checkbox"/> Air Pollution Devices
2 Boiler Blowdown Bypasses WW Trtmt	<input type="checkbox"/> Spent Rinse Tanks	<input type="checkbox"/> Equipment Coolants	2 Non-Contact Cooling Water Bypasses WW Treatment
<input type="checkbox"/> Stormwater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
List Major Raw Materials and Chemicals used: Unplated molded plastic parts, copper tubing, brass castings, brass tubing, etc.			
Check Waste Stream Pollutants of Concern from Process(es)			
<input type="checkbox"/> BOD	<input type="checkbox"/> 2 CN ⁻	<input type="checkbox"/> Metals (List) Cd, Cr, Cu, Pb, Ni, Ag & Zn	<input type="checkbox"/> Solvents (List)
<input type="checkbox"/> TSS	<input type="checkbox"/> Cl ₂		
<input type="checkbox"/> O&G	<input type="checkbox"/> S ⁻		
<input type="checkbox"/> pH	<input type="checkbox"/>		
Are there floor drains in the Process area? 2 Yes <input type="checkbox"/> No If yes list number and the location of all floor drains: Kohler has sealed all floor drains to the sewer.			

Attachment B: Pollution Prevention (P2) / Recycling Activities

Does the facility have a written P2 Plan?	Yes <input type="checkbox"/>	No 2
Does this facility practice P2?	Yes 2	No <input type="checkbox"/>
Environmental Management System in place?	Yes <input type="checkbox"/>	No 2
ISO Certified?	Yes 2	No <input type="checkbox"/> ISO 9001
Written Standard Operating Procedures?	Yes 2	No <input type="checkbox"/>
Explain: Energy Conservation & Water Minimization		
Preventative Maintenance Program	Yes 2	No <input type="checkbox"/> (hydraulic systems, valves, pumps, etc)
Explain: Overall Plant Procedure		
Water Reuse:	Yes 2	No <input type="checkbox"/>
Explain: Mainly Water Minimization		
Cost Accounting to Track Savings:	Yes 2	No <input type="checkbox"/>
Explain: Sheridan Plant uses KOS (Kohler Operation System) to track savings		
Inventory Control / "Green Purchasing":	Yes 2	No <input type="checkbox"/> (lean manufacturing/"env. friendly purchasing", etc)
Explain:		
Employee Training:	Yes 2	No <input type="checkbox"/>
Explain:		
Spent Solvent Reclamation?	Yes <input type="checkbox"/>	No <input type="checkbox"/> Not Applicable to the Sheridan Plant
Explain:		
Recycle Paper, Aluminum, Boxes, and Pallets?	Yes 2	No <input type="checkbox"/>
Explain:		
Recycle Waste Oil, Solvents, and Lubricants?	Yes 2	No <input type="checkbox"/>
Explain:		
Other Activities		
P2 Equipment/Practices in use:		
<input type="checkbox"/> Overflow Alarms		2 Aqueous Cleaning Solutions
2 Fog Spray Rinsing		2 Countercurrent Rinsing
2 Dragout Collection Trays		<input type="checkbox"/> Seal-Less Pumps
2 Air Jets to Blow Parts Dry		2 Secondary Containment of Process Solutions
<input type="checkbox"/> Aqueous Paint Stripping Solutions		<input type="checkbox"/> Bead Blasting to Remove Paint (N/A)
2 Water Soluble Cutting Fluids		<input type="checkbox"/> Recycle Overspray
2 In-Process Recycle (Ion Exchange, Reverse Osmosis)		2 Conductivity Meters
2 Dead Rinse Tanks		2 Bath / Rinse Filtration

Attachment C: Pretreatment System

Are wastestreams segregated before pretreatment?	<input type="checkbox"/> Yes	2 No	<input type="checkbox"/> N/A
Are they pretreated prior to discharge to the sanitary sewer?	2 Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was the pretreatment system visually inspected during this visit?	2 Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

Check which of the following are utilized for pretreatment prior to discharge to sanitary sewer:

<input type="checkbox"/> Dissolved air floatation	<input type="checkbox"/> Membrane Tech.	<input type="checkbox"/> Ion Exchange	<input type="checkbox"/> Biological Treatment
<input type="checkbox"/> Centrifugation	<input type="checkbox"/> Flow Equalization	<input type="checkbox"/> Ozonation	<input type="checkbox"/> Chlorinating
2 Chemical Precipitation	<input type="checkbox"/> Oil/Water Separation	<input type="checkbox"/> Reverse Osmosis	<input type="checkbox"/> Grit Removal
<input type="checkbox"/> Sludge Filter Press	<input type="checkbox"/> Grease Trap	<input type="checkbox"/> Screen	<input type="checkbox"/> Solvent Separation
2 pH Adjustment	<input type="checkbox"/> Sand Trap	<input type="checkbox"/> Sedimentation	<input type="checkbox"/> Silver Recovery
<input type="checkbox"/> Belt/Disk Oil Skimmer	2 Chromium Reduction	<input type="checkbox"/>	<input type="checkbox"/>

Provide Brief Description of Pretreatment System (leaks, cleanliness, equipment not in working order):

Good Condition located in a pit below grade for spill containment

Does the description match the schematic currently on file? **2** Yes No N/A

System Operator(s) Name: **Neal Hollinger**

Joe McElroy

Does discharge permit require licensed operator? Yes No **2** N/A

Is the System Operator(s) licensed by the State of Arkansas (per Reg. # 3?) **2** Yes No N/A

List Name(s) and License classification:

Neal Hollinger - Class I & Municipal Anthony Butler Class I James House Class I

Lynn Smith Class I Tera Giles Class I & Municipal John Stone Class I

Is training provided to the Pretreatment System Operator(s)? **2** Yes No N/A

If Yes, list type and frequency: **once per year**

Is the discharge from the Pretreatment System? Batch **2** Continuous Combination

If any discharges are batch type or combination, describe the following:

Volume of each batch: _____ gallons per

Describe process from which batch originated (spent bath, e.g.):

Approximate duration of batch discharge:

Meter Type	Calibration Procedure and Frequency	Comments (Totalizer Reading)
Totalizer		

Attachment D: Chemical Storage Area(s)

Does the facility have a designated chemical storage area(s)? **2** Yes No

Was this area(s) visually inspected? **2** Yes No N/A

Describe Chemical Storage Area(s)	Are there floor drains in this area?	If yes, where does this drain lead to?
1. Cleaners	<input type="checkbox"/> Yes 2 No	<input type="checkbox"/> Pretreatment <input type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Storm Sewer
2.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Pretreatment <input type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Storm Sewer
3.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Pretreatment <input type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Storm Sewer
4.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Pretreatment <input type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Storm Sewer

Does the Chemical Storage Area(s) contain any of the following?

<input type="checkbox"/> Dikes, Berms for Containment	<input type="checkbox"/> Plugs for Floor Drains
<input type="checkbox"/> Secondary Tanks for Holding	<input type="checkbox"/> Premix (low) Concentrations
<input type="checkbox"/> Alarms	<input type="checkbox"/> Chain restraints, limited access
<input type="checkbox"/> Spills Control Kits for Cleanup	<input type="checkbox"/> Notification Procedures
<input type="checkbox"/> Chemical desegregation within Storage Area	<input type="checkbox"/> Other

Chemical Inventory List (MSDS) on file? Yes No N/A

Were any new MSDS reviewed during the Inspection? Yes No **2**N/A

If yes, list below: **Kohler presently has elected to sample for the 110 toxic organics; if Kohler elects to submit a TOMP (Toxic Organic Management Plan shown in 40CFR433.12) than Kohler must review all MSDS to check for the 110 toxic organics listed in 40 CFR 433.11(e).**

Chemical storage comments: **Kohler has not installed "area" containment in the chemical storage area. Spills are capable of leaving the storage area and an old sanitary sewer manhole is located in this area. However, Kohler has plans to install a temporary berm. Kohler has install drum containment.**

Chemical handling procedures (totes, dolly, buckets, hardline, etc):

Forklifts

Attachment E: Spill/Slug Control Plan

Does the facility have a Spill/Slug control plan?	2 yes <input type="checkbox"/> no
If yes are the following: 403.8(f)(2)(v)(A-D) requirements in place?	
Is the spill/slug control plan <2 years old?	2 yes <input type="checkbox"/> no <input type="checkbox"/> N/A
(A) Describes discharge practices including non routine batch (slug) discharges	2 yes <input type="checkbox"/> no <input type="checkbox"/> N/A
(B) Describes storage and handling of chemicals	2 yes <input type="checkbox"/> no <input type="checkbox"/> N/A
(C) Procedures for immediate notification to POTW of slug discharges	2 yes <input type="checkbox"/> no <input type="checkbox"/> N/A
(D) 1. Describes measures for controlling toxic/hazardous pollutants	2 yes <input type="checkbox"/> no <input type="checkbox"/> N/A
2. Describes procedures and equipment for emergency response	2 yes <input type="checkbox"/> no <input type="checkbox"/> N/A
3. Describes follow-up to limit damage suffered by POTW or environment	<input type="checkbox"/> yes 2 no <input type="checkbox"/> N/A
4. Does the facility have Spill/Slug Notification Procedures posted?	<input type="checkbox"/> yes 2 no <input type="checkbox"/> N/A
5. Are worker personnel provided training in the event of a spill or slug discharge?	2 yes <input type="checkbox"/> no <input type="checkbox"/> N/A
If no:	
Does the facility have Spill/Slug Notification Procedures posted?	<input type="checkbox"/> yes 2 no
Is it posted in areas where chemicals are used and stored?	<input type="checkbox"/> yes 2 no
If Yes how many?	
Are appropriate personnel provided training in the event of a spill or slug discharge?	2 yes <input type="checkbox"/> no
Have there been any non-routine, episodic discharges or chemical spills in the past year?	<input type="checkbox"/> yes 2 no
(Briefly Describe, Include Dates)	
Was the City notified of these occurrences? <input type="checkbox"/> yes <input type="checkbox"/> no 2 N/A	
<i>Visual Inspection of Discharge Lines/Points</i>	
Provide description of manhole condition and flow channel of the following where applicable:	
Sampling / Monitoring Point	Indoors at end of pretreatment system but the ADEQ inspector took a grab sample from an exterior manhole.
Total Flow Monitoring Point	Totalizer on discharge line to POTW; read-out is located in the lab.
Upstream Manhole	
Point of Connection:	

Attachment F: Self-Monitoring & if CFR 433, TTO/TOMP Requirements

Have Operator (or person collecting the sample) to describe how composite and grab samples are collected and preserved. Record descriptions. Include name of individual and title.

Where is the sample point located? **Indoors but the ADEQ inspector used an exterior manhole to take grab sample**

<input type="checkbox"/> End of Process	<input checked="" type="checkbox"/> Pretreatment Effluent	<input type="checkbox"/> Total Flow
<input type="checkbox"/> Combined Flow	<input type="checkbox"/> Metered Flow	<input type="checkbox"/> Flow Actuator
<input type="checkbox"/> Private Manhole	<input type="checkbox"/> Utility Manhole	<input type="checkbox"/> Advance Notice Required
<input type="checkbox"/> Safety Hazards Identified	<input type="checkbox"/>	<input type="checkbox"/>

Is the Sample Collection Site Adequate? Yes No N/A

Does the facility rep. request a split sample on this sampling/inspection? Yes No

Does the facility perform self-monitoring tests in-house? **2** Yes No N/A

If no, record the name and address of Contract Lab:

Kohler uses "Arkansas Analytical" for official reports to ADEQ

Automatic Sampler or Manual

IU Self-Monitoring Results reviewed: **2** Yes No N/A

Is the Contract Lab certified by ADEQ for test parameters? **2** Yes No N/A

Dates and Times of Sample Analysis Recorded? **2** Yes No N/A

Correct Methods Used for Test Analysis (Refer To 40CFR Part 136) **2** Yes No N/A

EPA recommended holding times being met (Refer to 40CFR Part 136) **2** Yes No N/A

Chain of Custody Records for Self-Monitoring Samples Reviewed **2** Yes No N/A

Were correct Sample Types Collected **2** Yes No N/A

Dates and times of Sample Collection Recorded? **2** Yes No N/A

Were Samples preserved correctly (refer to 40CFR Part 136) **2** Yes No N/A

Were Self Monitoring records on file for past 3 years? Yes No N/A

List the parameters the facility monitors and the frequency:

2 Cd(t) 2 /yr required	2 Cu(t) 2 /yr required	2 Cr(t) 2 /yr required	2 Ni(t) 2 /yr required	<input type="checkbox"/> Pb(t) 2 /yr required
2 Ag(t) 2 /yr required	2 Zn(t) 2 /yr required	<input type="checkbox"/> pH	2 CN ⁻ (t) 2 /yr required	<input type="checkbox"/> CN ⁻ (a-c)
2 TTO-Vol 2 /yr required	2 TTO-B/N 2 /yr req'd	2 TTO-A.E. 2 /yr req'd	2 TTO-Pest 2 /yr req'd	<input type="checkbox"/> Cr(hex)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Toxic Organic Management Plan (TOMP) for Metal Finishers under CFR 433

How does the IU report TTO? **2** Analysis Certification Statement

Does the facility have a Toxic Organic Management Plan? Yes **2** No N/A

If yes, Does the plan show how toxic organics are used, stored, and disposed? Yes No N/A

List the date of the last revision to the TOMP:

Is the TOMP being followed as written? Yes No **2** N/A (If no, provide explanation in comments.)

If no, is there evidence that a TOMP is needed? Yes No **2** N/A (If yes, provide description of evidence in comments.)

Comments: **Kohler may elect to develop a TOMP in lieu of testing for the 110 toxic organics twice each year.**



5301 Northshore Drive
North Little Rock, AR 72118
Telephone: 501-682-0744

Client Report For: Kohler 27-00004 2011 2948
Attention:
Client Address:

,

Report Date: September 28, 2011
LAB ID: AR11SEP21-10
Comment:

Approved By: _____

Date: September 28, 2011

5301 Northshore Drive

Ruehr@adeq.state.ar.us

North Little Rock, AR 72118

501-682-0955

Client:	CSI	Client Sample ID:	KLR
Lab ID:	2011-2948	Collection Date:	9/21/2011 10:49:00 AM
		Matrix:	Water

Analyses**Total Metals by EPA 200.8****EPA 200.8****Batch: 11092803 Run: 1**

	<u>Result</u>	<u>Reporting</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	<200	200	20		ug/L
Antimony	<100	100	5		ug/L
Arsenic	<10.0	10.0	0.5		ug/L
Barium	<100	100	2.0		ug/L
Beryllium	<5.00	5.00	0.1		ug/L
Boron	1880	250	5.0		ug/L
Cadmium	<10.0	10.0	0.3		ug/L
Calcium	160	0.4	0.04		mg/L
Chromium	708	10.0	0.3		ug/L
Cobalt	<10.0	10.0	0.5		ug/L
Copper	942	10.0	0.5		ug/L
Iron	510	200	10.0		ug/L
Lead	<10.0	10.0	0.1		ug/L
Magnesium	1.29	1.00	0.1		mg/L
Manganese	11.8	10.0	0.2		ug/L
Nickel	536	25.0	0.5		ug/L
Potassium	<10.0	10.0	0.05		mg/L
Selenium	<20.0	20.0	0.5		ug/L
Silver	<50.0	50.0	1.0		ug/L
Sodium	122	0.4	0.02		mg/L
Thallium	<25.0	25.0	0.05		ug/L
Vanadium	<25.0	25.0	1.0		ug/L
Zinc	36.4	30.0	2.0		ug/L
Dilution Factor	1.00				
Analyzed By	Joe Semberski				
Analysis Date/Time	Sep 28 2011 9:35AM				
Prep By					
Prep Date/Time					

Analytical Quality Control Results Report

Batch: 11092803	ICP Metals - water (total)
KLR	LIMS ID: 2011-2948

<i>ICP Metals - water (Total) DUP</i>					<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Aluminum	<200 ug/L	200	200		
Aluminum (RPD)	3.3 %				0 - 20
Antimony (RPD)	2.5 %				0 - 20
Antimony	<100 ug/L	50	100		
Arsenic	<10.0 ug/L	5	10		
Arsenic (RPD)	71.4 %				0 - 20
Barium (RPD)	5.1 %				0 - 20
Barium	<100 ug/L	20	100		
Beryllium	<5.00 ug/L	1	5		
Beryllium (RPD)	0 %				0 - 20
Boron (RPD)	3.3 %				0 - 20
Boron	1950 ug/L	50	250		
Cadmium (RPD)	0 %				0 - 20
Cadmium	<10.0 ug/L	3	10		
Calcium	164 mg/L	0.4	0.4		
Calcium (RPD)	2.7 %				0 - 20
Chromium (RPD)	6.0 %				0 - 20
Chromium	752 ug/L	3	10		
Cobalt	<10.0 ug/L	5	10		
Cobalt (RPD)	29.3 %				0 - 20
Copper (RPD)	4.7 %				0 - 20
Copper	987 ug/L	5	10		
Iron	541 ug/L	100	200		
Iron (RPD)	5.9 %				0 - 20
Lead (RPD)	0 %				0 - 20
Lead	<10.0 ug/L	1	10		
Magnesium	1.3 mg/L	1	1		
Magnesium (RPD)	0.9 %				0 - 20
Manganese	12 ug/L	2	10		
Manganese (RPD)	1.8 %				0 - 20
Nickel (RPD)	5.4 %				0 - 20
Nickel	560 ug/L	5	25		
Potassium	<10.0 mg/L	0.5	10		
Potassium (RPD)	2.6 %				0 - 20
Selenium (RPD)	144 %				0 - 20
Selenium	<20.0 ug/L	5	20		
Silver	<50.0 ug/L	10	50		
Silver (RPD)	50.0 %				0 - 20
Sodium (RPD)	6.2 %				0 - 20
Sodium	130 mg/L	0.2	0.4		
Thallium	<25.0 ug/L	0.5	25		
Thallium (RPD)	200 %				0 - 20
Vanadium (RPD)	138 %				0 - 20
Vanadium	<25.0 ug/L	10	25		
Zinc	38.5 ug/L	20	30		
Zinc (RPD)	5.5 %				0 - 20
Dilution Factor	1.0				
Analyzed By	Joe Semberski				
Analysis Date/Time	Sep 28 2011				

KLR	LIMS ID: 2011-2948
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<i>ICP Metals - water (Total) MS</i>					<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Aluminum (% Recovery)	102 %				70 - 130

Antimony (% Recovery)	102 %	70 - 130
Arsenic (% Recovery)	106 %	70 - 130
Barium (% Recovery)	97.7 %	70 - 130
Beryllium (% Recovery)	100 %	70 - 130
Boron (% Recovery)	95.9 %	70 - 130
Cadmium (% Recovery)	102 %	70 - 130
Calcium (% Recovery)	90.9 %	70 - 130
Chromium (% Recovery)	83.6 %	70 - 130
Cobalt (% Recovery)	100 %	70 - 130
Copper (% Recovery)	86.8 %	70 - 130
Iron (% Recovery)	99.2 %	70 - 130
Lead (% Recovery)	103 %	70 - 130
Magnesium (% Recovery)	93.3 %	70 - 130
Manganese (% Recovery)	100 %	70 - 130
Nickel (% Recovery)	96 %	70 - 130
Potassium (% Recovery)	106 %	70 - 130
Selenium (% Recovery)	107 %	70 - 130
Silver (% Recovery)	93.8 %	70 - 130
Sodium (% Recovery)	98.4 %	70 - 130
Thallium (% Recovery)	99.5 %	70 - 130
Vanadium (% Recovery)	99.3 %	70 - 130
Zinc (% Recovery)	110 %	70 - 130
Dilution Factor	1.0	
Analyzed By	Joe Semberski	
Analysis Date/Time	Sep 28 2011	

KLR **LIMS ID: 2011-2948**

<i>ICP Metals - water (Total) MSD</i>					<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Aluminum (% Recovery)	99.9 %			70 - 130	
Aluminum (RPD)	1.5 %				0 - 20
Antimony (% Recovery)	104 %			70 - 130	
Antimony (RPD)	1.8 %				0 - 20
Arsenic (% Recovery)	106 %			70 - 130	
Arsenic (RPD)	0.5 %				0 - 20
Barium (% Recovery)	99.8 %			70 - 130	
Barium (RPD)	2.1 %				0 - 20
Beryllium (% Recovery)	100 %			70 - 130	
Beryllium (RPD)	0.3 %				0 - 20
Boron (% Recovery)	97.6 %			70 - 130	
Boron (RPD)	0.9 %				0 - 20
Cadmium (% Recovery)	106 %			70 - 130	
Cadmium (RPD)	3.8 %				0 - 20
Calcium (% Recovery)	95.2 %			70 - 130	
Calcium (RPD)	1.7 %				0 - 20
Chromium (% Recovery)	88.5 %			70 - 130	
Chromium (RPD)	1.1 %				0 - 20
Cobalt (% Recovery)	102 %			70 - 130	
Cobalt (RPD)	1.8 %				0 - 20
Copper (% Recovery)	87.0 %			70 - 130	
Copper (RPD)	0.1 %				0 - 20
Iron (% Recovery)	101 %			70 - 130	
Iron (RPD)	1.1 %				0 - 20
Lead (% Recovery)	103 %			70 - 130	
Lead (RPD)	0 %				0 - 20
Magnesium (% Recovery)	93.0 %			70 - 130	
Magnesium (RPD)	0.3 %				0 - 20
Manganese (% Recovery)	100 %			70 - 130	
Manganese (RPD)	1.1 %				0 - 20
Nickel (% Recovery)	97 %			70 - 130	
Nickel (RPD)	0.8 %				0 - 20
Potassium (% Recovery)	108 %			70 - 130	
Potassium (RPD)	1.9 %				0 - 20
Selenium (% Recovery)	109 %			70 - 130	
Selenium (RPD)	2.1 %				0 - 20
Silver (% Recovery)	95.4 %			70 - 130	
Silver (RPD)	1.7 %				0 - 20
Sodium (% Recovery)	98.2 %			70 - 130	
Sodium (RPD)	0.1 %				0 - 20
Thallium (% Recovery)	100 %			70 - 130	
Thallium (RPD)	0.6 %				0 - 20
Vanadium (% Recovery)	101 %			70 - 130	
Vanadium (RPD)	1.3 %				0 - 20
Zinc (% Recovery)	111 %			70 - 130	
Zinc (RPD)	1.0 %				0 - 20
Dilution Factor	1.0				

