

SEMI-ANNUAL REPORT FOR INDUSTRIAL USERS REGULATED BY 40 CFR 433.17

Use of this form is not an ADEQ requirement, but satisfies the reporting requirements in 40 CFR 403.12(e).

Attn: Water Div/NPDES Pretreatment

(1) IDENTIFYING INFORMATION and NPDES Pretreatment Tracking # ARP00

<p>A. LEGAL NAME & MAILING ADDRESS</p> <p>MEC (Formerly Defiance Metal Products of Ar) 944 Bypass Rd Heber Springs, AR. 72543</p>	<p>B. FACILITY & LOCATION ADDRESS</p> <p>Same as section A</p> <p>Collection date 10-28-23</p>
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C. FACILITY CONTACT: Steve Adcock **TELEPHONE NUMBER:** 501-270-0620 **steve.adcock@mecinc.com**

(2) REPORTING PERIOD--FISCAL YEAR From Nov to May (Both Semi-Annual Reports must cover Fiscal Year)

<p>A. MONTHS WHICH REPORTS ARE DUE</p> <p><u>November</u> & <u>May</u></p>	<p>B. PERIOD COVERED BY THIS REPORT</p> <p>FROM May 2023 TO: November 2023</p>
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(3) DESCRIPTION OF OPERATION

<p>A. REGULATED PROCESSES</p> <p><u>CORE PROCESS(ES)</u></p> <p>CHECK EACH APPLICABLE BLOCK</p> <p><input checked="" type="checkbox"/> Electroplating <input checked="" type="checkbox"/> Electroless Plating <input checked="" type="checkbox"/> Anodizing <input checked="" type="checkbox"/> Coating (conversion) <input checked="" type="checkbox"/> Chemical Etching and Milling <input checked="" type="checkbox"/> Printed Circuit Board Manufacture</p> <p><u>ANCILLARY PROCESS(ES)*</u></p> <p>LIST BELOW EACH PROCESS USED IN THE FACILITY</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</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>
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*SEE 40CFR433.10(a) FOR THE 40 ANCILLARY OPERATIONS

<p>C. Number of Regular Employees at this Facility <u>200</u></p>	<p>D. [Reserved]</p>
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(4) FLOW MEASUREMENT

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

Process	Average	Maximum	Type of Discharge*
Regulated (Core & Cyanide)	5000	6500	Batch/once per day
' 403.6(e) Unregulated*			
' 403.6(e) Dilute			
Cooling Water			
Sanitary			
Total Flow to POTW	5000	6500	

*If batch discharged please list the period of time of each batch discharge (300 gallons/day; 500 gallons/week, 2,000 gallons/3 months, etc). Do not normalize over that period for the average flow.

**"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 ON TREATMENT SYSTEM

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.

40 CFR 433.17 Pollutant (mg/l) limits	Cd	Cr	Cu	Pb	Ni	Ag	Zn	CN	TTO*
Max for 1 day	0.11	2.77	3.38	0.69	3.98	0.43	2.61	1.20	2.13
Monthly Avg	0.07	1.71	2.07	0.43	2.38	0.24	1.48	0.65	--
Max Measured	<0.02	<0.02	0.039	<0.02	.749	<0.02	.701	<0.01	*
Avg Measured**									

Sample Location Final Discharge Point

Sample Type (Grab* or Composite) Grab

*If Grab, list # of grabs over what period of time

Number of Samples and Frequency Collected 1 sample

40CFR136 Preservation and Analytical Methods Use: Yes No (include complete Chain of Custody)

*If a TOMP has been submitted and approved by ADEQ place N/A.

**A value here is the average of all samples taken during one (1) calendar month regardless of number of

samples taken. If only one (1) sample is taken it must meet the monthly average limitation.

(6) CERTIFICATION (ONLY IF A TOMP HAS BEEN SUBMITTED/APPROVED BY ADEQ)

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 wastewaters 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 Environmental Quality.

Jonathan Toomer
(Typed/Printed Name)


(Corporate Officer or authorized representative signature)

Date of Signature 11/10/2023

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

'6602 [42 U.S.C. 13101] 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 including Best or Environmental Management Practices, Source Reduction, Waste Minimization, Lean Manufacturing, Water and/or Energy Conservaton:

1. _____
2. _____
3. _____
4. _____
5. _____

(8) GENERAL COMMENTS

(9) SEMI-ANNUAL/PERIODIC REPORT CERTIFICATION STATEMENT REQUIRED UNDER 40 CFR 403.12(I)

I certify under penalty of law that I have personally examined and am familiar with the information in this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jonathan Toomer
NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE



SIGNATURE

EHS Manager
OFFICIAL TITLE

11/10/2023
DATE SIGNED

Arkansas Testing Laboratories

3301 Langley Ave - Searcy, AR 72143
 (501) 258-6431 f (844) 318-7030
 arkatl@sbclglobal.net

NPDES Wastewater Monitoring
 Water and Wastewater Analysis
 Concrete, Asphalt, and Aggregate Testing
 Geotechnical Testing
 Industrial and Construction Quality Control

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

CLIENT: **Mayville Engineering Company, Inc.**

SAMPLED BY: **HEATH BOLTON**

SAMPLE MATRIX: **W=H2O
S-SLUDGE
D-SOIL
C-WEILL**

SAMPLE TYPE: **EFF/ Bi-Annual**

DATE: **10-28-2023**

TIME: **9:40**

Flow

Grab / Comp

Grab

CALIBRATION		PRESERVATIVES	
PH / DO #	NaOH	HNO3	

= no. of bottles

Cl, L, H = One Ltr, Half Gal P, G = Plastic, Glass

Cyanide

Metals

1-1-P

1-100-P

Comments:

COLLECT:

Relinquished by:

Date/Time

Received by:

Date/Time

Relinquished by:

Date/Time

Received by:

Date/Time

Handwritten signature

10-31-23

755

Handwritten signature

10-31-23

700

755

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NPDES Wastewater Monitoring
 Water and Wastewater Analysis
 Concrete, Asphalt, and Aggregate Testing
 Geotechnical Testing
 Industrial and Construction Quality Control

MEC INC.

Collection Date: October 28, 2023

Collection Time: 9:40 AM

Collected By: HB

BI-ANNUAL WATER ANALYSIS

Collection Place: CLARIFIER

KLB

Parameter	Analysis Begin Date / Time	Analysis End Date / Time	Results	Unit	Analyst	% Spike	Rel %	Sample Type	Method: Analysis complies with 40 CFR Part 136
Cyanide	11/06 11:30 AM	NA	< 0.01	mg/l	KLB	93.8	0.00	GRAB	SM 4500 CN-E-2016
Cadmium	11/03 10:12 AM	NA	< 0.02	mg/l	KLB	98.5	0.65	GRAB	SM 3120 B-2011
Chromium	11/03 10:12 AM	NA	< 0.02	mg/l	KLB	98.8	2.34	GRAB	SM 3120 B-2011
Copper	11/03 10:12 AM	NA	0.039	mg/l	KLB	99.3	3.06	GRAB	SM 3120 B-2011
Lead	11/03 10:12 AM	NA	< 0.02	mg/l	KLB	99.2	2.09	GRAB	SM 3120 B-2011
Nickel	11/03 10:12 AM	NA	0.749	mg/l	KLB	98.5	2.72	GRAB	SM 3120 B-2011
Zinc	11/03 10:12 AM	NA	0.701	mg/l	KLB	92.0	1.25	GRAB	SM 3120 B-2011
Silver	11/03 10:12 AM	NA	< 0.02	mg/l	KLB	98.9	2.75	GRAB	SM 3120 B-2011

Quality Assurance: All Parameters include 10% duplication studies by random selection. The following equipment is checked and calibrated daily: pH meter, balance, incubators, water baths, drying oven and sterilizing apparatus. Ammonia Nitrogen and Oil & Grease Analysis include duplication and spike studies at a rate of at least 10%.
Notes: Samples iced at collection. Preserved with H₂SO₄ to pH₂; Oil & Grease, Ammonia, COD


 Neville Adams, Manager

Alan Anderson (adpce.ad)

From: Alan Anderson (adpce.ad)
Sent: Friday, November 17, 2023 1:46 PM
To: 'steve.adcock@mecinc.com'
Subject: November 2023 semi-annual pretreatment report

Mr. Adcock:

The Office of Water Quality (OWQ) has received the November 2023 semi-annual pretreatment report, dated November 10, 2023. The OWQ has no comment regarding this report.

Thank You.

Alan Anderson, MPA | Pretreatment and Enforcement Coordinator
Division of Environmental Quality | Office of Water Quality
Enforcement Section
5301 Northshore Drive | North Little Rock, AR 72118
t: 501.682.0635 | c: 501.837.6954 | e: alan.anderson@example.com



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