Wilson, Tabatha

From: Gilliam, Allen
Sent: Wednesday, August 27, 2014 2:01 PM
To: Ryan, Will (WRyan@macleanfogg.com); dmerwitz@macleanfogg.com
Cc: Fuller, Kim; Wilson, Tabatha; pocawater@suddenlinkmail.com; Healey, Richard
Subject: AR0034835_MacLean ESNA ARP0001048 Aug 2014 late semi-annual report with ADEQ_20140827
Attachments: [Untitled].pdf

Will,

Mac-Lean ESNA's June 2014 semi-annual final corrected Pretreatment report (attached) was electronically received late, reviewed, deemed complete and compliant with the Metal Finishing standards in 40 CFR 433 using the combined wastestream formula (CWF) in 40 CFR 403.6(e).

Please ensure future reports are received by ADEQ before the end of your semi-annual reporting months of June and December of each year.

Thank you for your time and cooperation in settling on a valid/acceptable CWF factor. Please include the calculations for the basis of that factor in future reports.

Sincerely,

Allen Gilliam
ADEQ State Pretreatment Coordinator
501.682.0625

ec: William Daniel, Pocahontas Wastewater Manager
Richard Healey, NPDES Enforcement Coordinator

E/NPDES/NPDES/Pretreatment/Reports

From: Ryan, Will [mailto:WRyan@macleanfogg.com]
Sent: Wednesday, August 27, 2014 1:31 PM
To: Gilliam, Allen
Subject: FW:

Please review. Hopefully this will be final version.

Regards,

MacLean-Fogg COMPONENT SOLUTIONS Safety

Will K. Ryan | Plant Superintendent
MacLean-ESNA
611 Country Club Rd. Pocahontas, AR 72455
office.+ 870-892-4789 | cell. 870-378-7206

wryan@macleanfogg.com
www.macleanfoggcs.com

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

Mac-Lean ESNA
611 County Club Road
Pocahontas, AR 72455

B. FACILITY & LOCATION ADDRESS

Mac-Lean ESNA
611 County Club Road
Pocahontas, AR 72455

C. FACILITY CONTACT: Will Ryan TELEPHONE NUMBER: 870-892-4789 e-mail: wryan@macleanfogg.com

(2) REPORTING PERIOD--FISCAL YEAR From 2011 to 2011 (Both Semi-Annual Reports must cover Fiscal Year)

A. MONTHS WHICH REPORTS ARE DUE

June & December

B. PERIOD COVERED BY THIS REPORT

FROM: January 2014 TO: June 2014

(3) DESCRIPTION OF OPERATION

A. REGULATED PROCESSES

CORE PROCESS(ES)

CHECK EACH APPLICABLE BLOCK

G Electroplating
G Electroless Plating
G Anodizing
X Coating
G Chemical Etching and Milling
G Printed Circuit Board Manufacture

ANCILLARY PROCESS(ES)*

LIST BELOW EACH PROCESS USED IN THE FACILITY

Rust Removal

Passive Rinse Tank

_____

_____

_____

_____

*SEE 40CFR433.10(a) FOR 40 DIFFERENT OPERATIONS

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.

Rust removal tank removed in April 2014

C. Number of Regular Employees at this Facility: 72

D. [Reserved]

(4) FLOW MEASUREMENT

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

Process	Average	Maximum	Type of Discharge
Regulated (Core & Ancillary)	1468	1699	Continuous
Regulated (Cyanide)	0	0	N/A
'403.6(e) Unregulated'	0	0	N/A
'403.6(e) Dilute	71	82	Continuous
Cooling Water**	1130	1307	Continuous
Sanitary**	763	1240	Continuous
Total Flow to POTW	3362	4247	**********

'"Unregulated" has a precise legal meaning; see 40CFR403.6(e).

**Indicate if these Streams commingle with Regulated Streams BEFORE treatment

(5) MEASUREMENT OF POLLUTANTS

A. TYPE OF TREATMENT SYSTEM

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.

Pollutant(mg/l)	Cd	Cr	Cu	Pb	Ni	Ag	Zn	CN	TTO'
Max for 1 day	0.444	1.780	2.173	0.444	2.558	0.276	1.678	0.771	1.369
Monthly Ave	0.167	1.099	1.331	0.276	1.530	0.154	0.951	0.418	--
Max Measured	0.013	0.210	0.310	<0.04	0.310	<0.007	0.310	<0.01	TOMP
Ave Measured	0.013	0.210	0.310	<0.04	0.310	<0.007	0.310	<0.01	TOMP

Sample Location: Pretreatment system effluent

Sample Type (Grab or Composite): Grab/Composite

Number of Samples and Frequency Collected: One-Semi annually

40 CFR 136 Preservation and Analytical Methods Use: X Yes G No

Indicate Combined Wastestream Factor if Dilution Streams Exist w/Regulated Streams 0.643

(6) CERTIFICATION

A. Required under 40 CFR 403.12(g)

I certify under penalty of law that 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.

Dave Merwitz
(Typed Name)

D. J. T
(Corporate Officer or authorized representative)

B. CHECK ONE: G '433.11(e) TOXIC ORGANIC ANALYSIS ATTACHED G '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.

Dave Merwitz
(Typed Name)

D. J. T
(Corporate Officer or authorized representative)

Date of Signature 8/27/2014

Intentionally left blank

(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:

(8) GENERAL COMMENTS

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

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.

Dave Merwitz
NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE

D. Merwitz
SIGNATURE

General Manager
OFFICIAL TITLE

8/27/2014
DATE SIGNED

Water from City

Year

2014	Days	Gal. Avg	Flow Total
Jan	31	2258	70000
Feb	28	1854	51900
Mar	31	2245	69600
Apr	30	3077	92300
May	31	3032	94000
June	30	2697	80900

Avg Flow	2527
Max Flow	3077

Total Process Flow to City

Year

2014	Days	Gal. Avg	Flow Total
Jan	31	2198	68153
Feb	28	2408	67435
Mar	31	2333	72312
Apr	30	3281	98426
May	31	2450	75965
June	30	2921	87635

Avg. Used	2599
Max Used	3281

Avg Flow for 1-1-14 to 6-30-14

904 GPD Well Water	904 GPD	Hydraulic Press non-contact cooling water - non-regulated dilution
	226 GPD	Lepel Induction Heater non-contact cooling water - non-regulated dilution
	890 GPD	Passivate rinse tank - regulated
1764 GPD City Water	565 GPD	Rust Removal rinse tank - regulated
	14 GPD	Product Deburring - regulated
	67 GPD	Mop water - dilute
	1 GPD	Salt Spray blow down - dilute
	1.8 GPD	Lab - dilute
	1 GPD	Air compressor blow down - dilute
	1 GPD	Boiler blow down - dilute

Water used from City
2527 GPD

IN
1468 GPD Aeration Mixing Basin
OUT TO CITY
2,599 GPD

Total Regulated = 1468 GPD

Total Dilute Flow = 1200 GPD

	Avg. Flow
Regulated Total	1468
Dilute	70.7
Cooling Water	1130
Sanitary	763
Total Flow at Sample Point to POTW	3362

Max Flow for 1-1-14 to 6-30-14

1046 GPD Well Water	1046 GPD	Hydraulic Press non-contact cooling water - non-regulated dilution
	262 GPD	Lepel Induction Heater non-contact cooling water - non-regulated dilution
	1029 GPD	Passivate rinse tank - regulated
2041 GPD City Water	654 GPD	Rust Removal rinse tank - regulated
	16 GPD	Product Deburring - regulated
	78 GPD	Mop water - dilute
	1 GPD	Salt Spray blow down - dilute
	2.1 GPD	Lab - dilute
	1 GPD	Air compressor blow down - dilute
	1 GPD	Boiler blow down - dilute

Water used from City
3281 GPD

IN
1699 GPD Aeration Mixing Basin

OUT TO CITY
3,007 GPD

Total Regulated = 1699 GPD

Total Dilute Flow = 1389 GPD

	Avg. Flow
Regulated Total	1699
Dilute	82
Cooling Water	1307
Sanitary	1240
Total Flow at Sample Point to POTW	4247

Waste Stream Factor

Total flow at Sample Point to City = Total Regulated + Total Dilute Flow

Combined wastestream factor is total regulated divided
by total flow at sample point

Flow Total at Sample Point	Minus	Diluted Flow	Divided by	Flow Total at Sample Point	Equals	Waste Stream Factor
3362		1201		3362		0.643

PSES for All Plants Except Job Shops and Independent Printed Circuit Board Manufacturers		
Pollutant or pollutant property	Maximum for any 1 day Milligrams per liter (mg/l)	Monthly average shall not exceed
Cadmium (T)	0.69	0.26
Chromium (T)	2.77	1.71
Copper (T)	3.38	2.07
Lead (T)	0.69	0.43
Nickel (T)	3.98	2.38
Silver (T)	0.43	0.24
Zinc (T)	2.61	1.48
Cyanide (T)	1.2	0.65
TTO	2.13	

Wastestream factor	0.643

Pollutant or pollutant property	Maximum for any 1 day Milligrams per liter (mg/l)	Monthly average shall not exceed
Cadmium (T)	0.444	0.167
Chromium (T)	1.780	1.099
Copper (T)	2.173	1.331
Lead (T)	0.444	0.276
Nickel (T)	2.558	1.530
Silver (T)	0.276	0.154
Zinc (T)	1.678	0.951
Cyanide (T)	0.771	0.418
TTO	1.369	

AMERICAN INTERPLEX CORPORATION
LABORATORIES

October 2, 2013
Control No. 170998

MacLean ESNA
ATTN: Mr. Steve Thielemier
611 Country Club Road
Pocahontas, AR 72455

This report contains the analytical results and supporting information for samples submitted on September 27, 2013. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.

John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: MacLean ESNA
ATTN: Mr. Steve Thielemier
sthielemier@macleanfogg.com

MacLean ESNA
611 Country Club Road
Pocahontas, AR 72455

SAMPLE INFORMATION

Project Description:
Two (2) water sample(s) received on September 27, 2013
P.O. No. 25857-00

Receipt Details:
A Chain of Custody was provided. The samples were delivered in one (1) ice chest.
Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

Laboratory ID	Client Sample ID	Sampled Date/Time	Notes
170998-1	001 9-26-13 8:03am	26-Sep-2013 0803	1
170998-2	001 9-25-13 10:04am 9-26-13 10:00am	26-Sep-2013 1000	

Notes:
1. Received temperature of samples did not meet regulatory requirements

Case Narrative:
There were no qualifiers for this data and all samples met quality control criteria.

References:
"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
"Standard Methods for the Examination of Water and Wastewaters", 21st edition.
"American Society for Testing and Materials" (ASTM).
"Association of Analytical Chemists" (AOAC).

AMERICAN INTERPLEX CORPORATION
LABORATORIES

MacLean ESNA
611 Country Club Road
Pocahontas, AR 72455

ANALYTICAL RESULTS

AIC No. 170998-1
Sample Identification: 001 9-26-13 8:03am

Analyte		Result	RL	Units	Qualifier
Total Cyanide		**< 0.01**	0.01	mg/l	
SM 4500-CN C,E	Prep: 30-Sep-2013 1336 by 308	Analyzed: 01-Oct-2013 1624 by 308		Batch: W45091	

AIC No. 170998-2
Sample Identification: 001 9-25-13 10:04am 9-26-13 10:00am

Analyte		Result	RL	Units	Qualifier
Cadmium		**0.013**	0.004	mg/l	
EPA 200.8	Prep: 27-Sep-2013 1314 by 305	Analyzed: 27-Sep-2013 1516 by 305		Batch: S35484	
Chromium		**0.21**	0.007	mg/l	
EPA 200.8	Prep: 27-Sep-2013 1314 by 305	Analyzed: 27-Sep-2013 1516 by 305		Batch: S35484	
Copper		**0.31**	0.006	mg/l	
EPA 200.8	Prep: 27-Sep-2013 1314 by 305	Analyzed: 27-Sep-2013 1516 by 305		Batch: S35484	
Lead		**< 0.04**	0.04	mg/l	
EPA 200.8	Prep: 27-Sep-2013 1314 by 305	Analyzed: 27-Sep-2013 1516 by 305		Batch: S35484	
Nickel		**0.31**	0.01	mg/l	
EPA 200.8	Prep: 27-Sep-2013 1314 by 305	Analyzed: 27-Sep-2013 1516 by 305		Batch: S35484	
Silver		**< 0.007**	0.007	mg/l	
EPA 200.8	Prep: 27-Sep-2013 1314 by 305	Analyzed: 27-Sep-2013 1516 by 305		Batch: S35484	
Zinc		**0.31**	0.002	mg/l	
EPA 200.8	Prep: 27-Sep-2013 1314 by 305	Analyzed: 27-Sep-2013 1516 by 305		Batch: S35484	

AMERICAN INTERPLEX CORPORATION
LABORATORIES

MacLean ESNA
611 Country Club Road
Pocahontas, AR 72455

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	0.1 mg/l	92.1	85.0-115			W45091	30Sep13 1336 by 308	01Oct13 1622 by 308		
Cadmium	0.05 mg/l	94.7	85.0-115			S35484	27Sep13 1035 by 305	27Sep13 1313 by 305		
Chromium	0.05 mg/l	95.8	85.0-115			S35484	27Sep13 1035 by 305	27Sep13 1313 by 305		
Copper	0.05 mg/l	101	85.0-115			S35484	27Sep13 1035 by 271	27Sep13 1313 by 305		
Lead	0.05 mg/l	98.1	85.0-115			S35484	27Sep13 1035 by 305	27Sep13 1313 by 305		
Nickel	0.05 mg/l	95.7	85.0-115			S35484	27Sep13 1035 by 305	27Sep13 1313 by 305		
Silver	0.02 mg/l	103	85.0-115			S35484	27Sep13 1035 by 305	27Sep13 1313 by 305		
Zinc	0.05 mg/l	104	85.0-115			S35484	27Sep13 1035 by 305	27Sep13 1313 by 305		

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	170998-1	0.1 mg/l	89.8	75.0-125	W45091	30Sep13 1336 by 308	01Oct13 1626 by 308		
	170998-1	0.1 mg/l	101	75.0-125	W45091	30Sep13 1336 by 308	01Oct13 1628 by 308		
	Relative Percent Difference:		11.6	20.0	W45091				
Cadmium	170949-1	0.05 mg/l	90.7	75.0-125	S35484	27Sep13 1035 by 305	27Sep13 1318 by 305		
	170949-1	0.05 mg/l	90.7	75.0-125	S35484	27Sep13 1035 by 305	27Sep13 1323 by 305		
	Relative Percent Difference:		0.0926	20.0	S35484				
Chromium	170949-1	0.05 mg/l	93.8	75.0-125	S35484	27Sep13 1035 by 305	27Sep13 1318 by 305		
	170949-1	0.05 mg/l	94.4	75.0-125	S35484	27Sep13 1035 by 305	27Sep13 1323 by 305		
	Relative Percent Difference:		0.584	20.0	S35484				
Copper	170949-1	0.05 mg/l	91.3	75.0-125	S35484	27Sep13 1035 by 271	27Sep13 1318 by 305		
	170949-1	0.05 mg/l	92.2	75.0-125	S35484	27Sep13 1035 by 271	27Sep13 1323 by 305		
	Relative Percent Difference:		0.961	20.0	S35484				
Lead	170949-1	0.05 mg/l	92.8	75.0-125	S35484	27Sep13 1035 by 305	27Sep13 1318 by 305		
	170949-1	0.05 mg/l	93.2	75.0-125	S35484	27Sep13 1035 by 305	27Sep13 1323 by 305		
	Relative Percent Difference:		0.489	20.0	S35484				
Nickel	170949-1	0.05 mg/l	83.1	75.0-125	S35484	27Sep13 1035 by 305	27Sep13 1318 by 305		
	170949-1	0.05 mg/l	83.9	75.0-125	S35484	27Sep13 1035 by 305	27Sep13 1323 by 305		
	Relative Percent Difference:		0.945	20.0	S35484				
Silver	170949-1	0.02 mg/l	96.5	75.0-125	S35484	27Sep13 1035 by 305	27Sep13 1318 by 305		
	170949-1	0.02 mg/l	98.0	75.0-125	S35484	27Sep13 1035 by 305	27Sep13 1323 by 305		
	Relative Percent Difference:		1.49	20.0	S35484				
Zinc	170949-1	0.05 mg/l	87.7	75.0-125	S35484	27Sep13 1035 by 305	27Sep13 1318 by 305		
	170949-1	0.05 mg/l	87.2	75.0-125	S35484	27Sep13 1035 by 305	27Sep13 1323 by 305		
	Relative Percent Difference:		0.444	20.0	S35484				

AMERICAN INTERPLEX CORPORATION
LABORATORIES

MacLean ESNA
611 Country Club Road
Pocahontas, AR 72455

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Cyanide	< 0.01 mg/l	0.01	0.01	W45091-1	30Sep13 1335 by 308	01Oct13 1620 by 308	
Cadmium	< 0.004 mg/l	0.004	0.004	S35484-1	27Sep13 1035 by 305	27Sep13 1307 by 305	
Chromium	< 0.007 mg/l	0.007	0.007	S35484-1	27Sep13 1035 by 305	27Sep13 1307 by 305	
Copper	< 0.006 mg/l	0.006	0.006	S35484-1	27Sep13 1035 by 271	27Sep13 1307 by 305	
Lead	< 0.04 mg/l	0.04	0.04	S35484-1	27Sep13 1035 by 305	27Sep13 1307 by 305	
Nickel	< 0.01 mg/l	0.01	0.01	S35484-1	27Sep13 1035 by 305	27Sep13 1307 by 305	
Silver	< 0.007 mg/l	0.007	0.007	S35484-1	27Sep13 1035 by 305	27Sep13 1307 by 305	
Zinc	< 0.002 mg/l	0.002	0.002	S35484-1	27Sep13 1035 by 305	27Sep13 1307 by 305	

AMERICAN INTERPLEX CORPORATION LABORATORIES

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: MACLEAN / ESNA
Project Reference:
Project Manager:
Sampled By: STEVE THIELEMIER
PO No.

AIC No.	Sample Identification	Date/Time Collected	GRAB	COMP	Sample Matrix: WATER	Sample Matrix: SOIL	No of BOTTLES	Analyses Requested: CYANIDE	Analyses Requested: METALS	Remarks
1	001	9-26-13 8:03 AM	X		X		1	X		
2	001	9-25-13 10:04 AM		X	X		1		X	
				X						
	001	9-26-13 10:00 AM		X						
		Container Type						P	P	
		Preservative						B	N	

AIC Control No: 170998
AIC Proposal No:
Carrier:
Received Temperature °C: 19.5
Field pH calibration on _____ @ _____ Buffer:

G = Glass P = Plastic V = VOA vials H = HCl to pH2 T = Sodium Thiosulfate
NO = none S = Sulfuric acid pH2 N = Nitric acid pH2 B = NaOH to pH12 Z = Zinc acetate

Turnaround Time Requested: (Please circle)
(NORMAL) or EXPEDITED IN ____ DAYS
Expedited results requested by: _____
Who should AIC contact with questions: _____
Phone: 770-892-4761 Fax: _____
Report Attention to: STEVE THIELEMIER
Report Address to:

Relinquished By:	Date/Time	Received By:	Date/Time
Steve Thielemier	9-26-13 9:08 AM	[illegible]	9-26-13 9:09 AM
Relinquished By:	Date/Time	Received in Lab By:	Date/Time
		[illegible]	9-27-13 10:15

Comments: 12718 31403517B 4919