

## Henderson, Katie

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**From:** Torrence, Rufus  
**Sent:** Monday, March 05, 2012 12:50 PM  
**To:** David Seiler  
**Cc:** Henderson, Katie  
**Subject:** AFIN 54-00132 AR0043389 Amerimax February 2012 Semi-Annual Report  
**Attachments:** ARP001044 AFIN 54-00132 Amerimax Excel Workbook for Calculating Allowable Effluent Limits; AMX February 2012 Equal Limits.xlsx; AMX Feb 2012 SAR.pdf



March 5, 2012

Mr. Dave Seiler  
Amerimax Coated Products  
215 Phillips 324 Road  
Helena, AR 72342

Re: Amerimax February 2012 Semi-Annual Report  
(Permit No. AR000043389 AFIN 54-00132)

Dear Mr. Seiler:

The Department has reviewed the Amerimax's February 2012 Semi-annual Pretreatment Report and the report is complete. However, the Department has recommendations to improve future reporting.

The calculated allowable limits in the report were correct even though Amerimax did not properly normalize the flows. If Amerimax used the Excel spreadsheet attached to the Department's email dated July 21, 2011, then flows were not required (only total volumes). The Department has a similar Visual Basics program for determining allowable limits but the VB program requires normalized flows.

Referring to the daily flow log, the Department determined that Amerimax calculated volumes based on a "prorated total hours" rather than a "prorated daily hours". Please note that the "prorated total hours" volumes are not mathematical identities to the "prorated daily hours" volumes. For example, if the total flow on September 15, 2011 was 1,536 gallons instead of 536 gallons, then using the "prorated total hours" model, Amerimax would determine only an additional 78 gallons for the galvanized flow. The "daily hours" model would correctly determine that all the additional 1000 gallons came from the galvanized operation. A common fallacy for both models is the assumption of "steady flow". The daily

model minimizes the “error” of this assumption. The correct method is to read the totalizer at the beginning and end of each run (whether aluminum or galvanized) on every day. In either case, the correct normalized flow should be based on the days (182) in the six month period rather than “operating time-days”. The correct normalized flow for the aluminum operation is 2232.8 gpd and for the galvanized operation is 194.4 gpd. See the attached spreadsheet to follow the Department’s logic in determining flows, volumes and limits.

The Department appreciates Amerimax’s continued efforts in semi-annual reporting. If you have any questions or concerns, please contact the Department at (501) 682-0626 or by email at [torrence@adeq.state.ar.us](mailto:torrence@adeq.state.ar.us) .

Sincerely,



Rufus Torrence, Pretreatment Engineer  
Water Division

**ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY**  
5301 NORTHSIDE DRIVE • NORTH LITTLE ROCK, ARKANSAS 72118-5317 • TELEPHONE 501-682-0626  
[www.adeq.state.ar.us](http://www.adeq.state.ar.us)

## Henderson, Katie

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**From:** Torrence, Rufus  
**Sent:** Thursday, July 21, 2011 2:57 PM  
**To:** 'David Seiler'  
**Cc:** 'afleischmann@amerimaxbp.com'  
**Subject:** ARP001044 AFIN 54-00132 Amerimax Excel Workbook for Calculating Allowable Effluent Limits  
**Attachments:** AMX EqualLimits.xls

Attn: Dave Seiler, Plant Manager Amerimax

To assist Amerimax with the August 2011 report (due next month), please find attached a revised workbook to calculate Amerimax allowable limits. I revised the workbook to accept “totals” rather than “rates”. I think that “totals” will help avoid some confusion. As an example, I have entered the data from the February 2011 report. Note that I entered total gallons for each operation (galv and alum) for the six month period. Note also that the total volume of wastewater discharged from the “galvanized plant” was 9.91 days X 3785 gpd = 37,471.5 gallons during the six month period.

Amerimax can expect my inspection report with lab results sometime next month in August.

Let me know if you have questions.

Rufus Torrence, Engineer  
ADEQ  
(501) 682-0626  
[torrence@adeq.state.ar.us](mailto:torrence@adeq.state.ar.us)

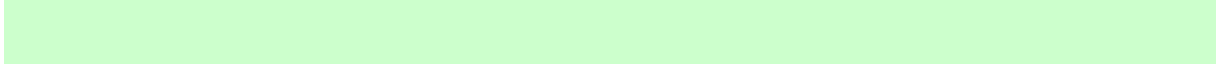
# AMERIMAX EQUAL LIMITS HELENA, Arkansas

This spreadsheet determines "Equal" limits for the Amerimax facility in Helena based on two regulated process, 40CFR465.25 Galvanized Basis Material and 40CFR465.35 Aluminum Basis Material. The plant has only one production line which runs either steel or aluminum.

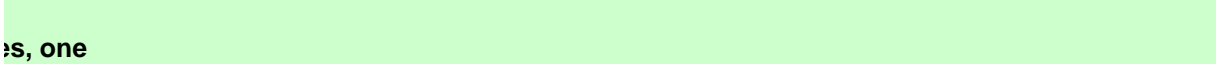
The math model for the Amerimax facility is equivalent to "two independent plants" (one plant which runs only aluminum and the other which runs only galv steel). Therefore, Amerimax must take two sample when the line is running aluminum and the second sample when the line is running galvanized steel. Take a "representative sample" at the weir for each "plant" during the six month period.

Note that the days of production are not relevant to the calculations in this spreadsheet since Amerimax is instructed to enter "totals" (production square footage and volume in gallons of wastewater) for the six month period.

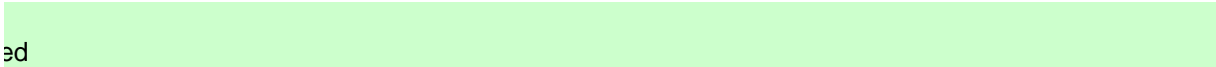
Also note that the model simulates two huge treatment tanks; one tank collects all the wastewater from the "alum plant" and the other tank collects all the wastewater from the "galv plant".



al

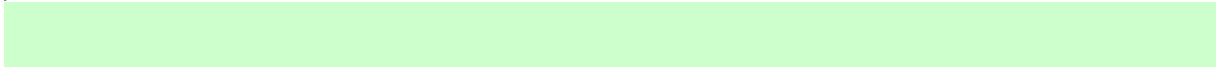


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plant" and



40CFR465.25 Galvanized Steel	9116064
40CFR465.35 Aluminum	71773058
40CFR465.25 Discharge Volume	37471.5
40CFR465.35 Discharge Volume	2125890

Enter total square footage of steel for the six month period

Enter total square footage of aluminum for the six month period

Enter total volume of wastewater in gallons discharged from "steel plant"

Enter total volume of wastewater in gallons discharged from "alum plant"

<b>Parameter</b>	<b>Galv Max Limit (mg/l)</b>	<b>Galv Ave Limit (mg/l)</b>	<b>Alum Max Limit (mg/l)</b>
<i>Chromium</i>	0.777	0.311	0.149
<i>Copper</i>	2.628	1.254	<i>Not Applicable</i>
<i>Cyanide</i>	0.418	0.167	0.079
<i>Zinc</i>	2.091	0.896	0.406



**Alum Ave Limit (mg/l)**

0.060

*Not Applicable*

0.032

0.166

## Amerimax Prorated Volume for the Aluminum and Galvanized C

Alum Hrs	Galv Hrs	Daily Vol	Alum Vol	Gal Vol
17.34	6.66	961	694.3	266.7
24		834	834.0	0.0
24		947	947.0	0.0
24		1575	1575.0	0.0
23.19	0.81	1015	980.7	34.3
24		1634	1634.0	0.0
20.98	3.02	3098	2708.2	389.8
	3.89	536	0.0	536.0
17.61	6.39	2257	1656.1	600.9
24		5104	5104.0	0.0
24		2559	2559.0	0.0
24		1540	1540.0	0.0
24		3335	3335.0	0.0
24		8801	8801.0	0.0
24		7332	7332.0	0.0
21.87	2.13	1965	1790.6	174.4
24		1606	1606.0	0.0
24		2507	2507.0	0.0
24		4365	4365.0	0.0
24		2537	2537.0	0.0
24		1317	1317.0	0.0
24		1595	1595.0	0.0
24		6621	6621.0	0.0
24		19033	19033.0	0.0
24		324	324.0	0.0
24		1179	1179.0	0.0
17.81	6.19	1193	885.3	307.7
8		2154	2154.0	0.0
24		15398	15398.0	0.0
12		67171	67171.0	0.0
24		42386	42386.0	0.0
24		2918	2918.0	0.0
15.5		519	519.0	0.0
24		291	291.0	0.0
24		1652	1652.0	0.0
24		11625	11625.0	0.0
24		3082	3082.0	0.0
5		6657	6657.0	0.0
24		5265	5265.0	0.0
24		7045	7045.0	0.0
24		8577	8577.0	0.0
24		7025	7025.0	0.0
8.5		3032	3032.0	0.0

16.9	7.1	1177	828.8	348.2
24		2339	2339.0	0.0
24		1997	1997.0	0.0
5.25		661	661.0	0.0
16.83	7.17		0.0	0.0
24		977	977.0	0.0
24		1715	1715.0	0.0
24		3129	3129.0	0.0
24		30	30.0	0.0
24		490	490.0	0.0
24		15	15.0	0.0
24		484	484.0	0.0
24		860	860.0	0.0
17.21	6.79	2384	1709.5	674.5
5.76	18.24	2535	608.4	1926.6
24		866	866.0	0.0
24		214	214.0	0.0
24		2963	2963.0	0.0
24		6421	6421.0	0.0
12		2149	2149.0	0.0
6.54	17.46	1245	339.3	905.7
24		1311	1311.0	0.0
24		1498	1498.0	0.0
24		6797	6797.0	0.0
24		10677	10677.0	0.0
24		2149	2149.0	0.0
4.84	19.16	4163	839.5	3323.5
24		2791	2791.0	0.0
24		291	291.0	0.0
24		3160	3160.0	0.0
17.38	6.62	2377	1721.3	655.7
24		6007	6007.0	0.0
24		6309	6309.0	0.0
24		7951	7951.0	0.0
24		8653	8653.0	0.0
4.39	19.61	29074	5318.1	23755.9
24		19781	19781.0	0.0
24		16166	16166.0	0.0
24		2715	2715.0	0.0
24		354	354.0	0.0
24		847	847.0	0.0
24		103	103.0	0.0
24		1989	1989.0	0.0
24		224	224.0	0.0
24		148	148.0	0.0
24		765	765.0	0.0

	15.23	8.77	968	614.3	353.7
	2.73	21.28	1269	144.3	1124.7
<b>TOTAL</b>	<b>1900.86</b>	<b>161.29</b>	<b>441755</b>	<b>406376.8</b>	<b>35378.2</b>

### Amerimax Average Flows and Rates for the Six Month Period

		Aluminum	Galvanized
Average Flow (GPD) per Six Months =		2232.8	194.4 gpd
Average Production Rate (sq-ft/day) =		479623.5	74891.5 sq-ft/day

### Allowable Limits for the Six Month Period

To Determine the Allowable Limit (mg/l), Amerimax may use actual volumes (liters) and the

Therefore, the volume of wastewater discharged in the six month period for each operation

Alum:	406376.8 gallons X 3.785 liters/gallon =	1538136 liters
Galv:	35378.2 gallons X 3.785 liters/gallon =	133906 liters

The surface area coated for each operation equals:

Alum:	87291474 sq-ft / 10.76 sq-ft/sq-meter =	8112591 sq-meters
Galv:	13630244 sq-ft / 10.76 sq-ft/sq-meter =	1266751 sq-meters

The allowable milligrams of metals in the wastewater for the six month period is:

#### Galvanized

Chromium:	0.052 mg/sq-m X 1266751 sq-m =	65871 mg
Copper:	0.21 mg/sq-m X 1266751 sq-m =	266018 mg
Cyanide:	0.028 mg/sq-m X 1266751 sq-m =	35469 mg
Zinc:	0.15 mg/sq-m X 1266751 sq-m =	190013 mg

#### Aluminum

Chromium:	0.072 mg/sq-m X 8112591 sq-m =	584107 mg
Cyanide:	0.038 mg/sq-m X 8112591 sq-m =	308278 mg
Zinc:	0.20 mg/sq-m X 8112591 sq-m =	1622518 mg

The math model assumes two plants (one which coats alum and the other coats galv). We can also assume that all the wastewater during a six month period is captured in two tanks. One tank contains all the wastewater for the alum plant and has 1,538,136 liters in it.

The other tanks contains all the wastewater from the galv plant and has 133,906 liters in it.

The concentrations of metals in the tanks are:

#### Galvanized:

Chromium:	65871 mg / 133906 liters =	0.49 mg/l
Copper:	266018 mg / 133906 liters =	1.99 mg/l
Cyanide:	35469 mg / 133906 liters =	0.26 mg/l
Zinc:	190013 mg / 133906 liters =	1.42 mg/l

#### Aluminum

Chromium: 584107 mg / 1,538,136 liters = **0.38** mg/l  
Cyanide: 308278 mg / 1,538,136 liters = **0.20** mg/l  
Zinc: 1622518 mg / 1,538,136 liters = **1.05** mg/l

## **Coating Operations**

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ē coated surface (sq meters).

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SEMI-ANNUAL REPORT FOR INDUSTRIAL USERS REGULATED BY 40CFR465

Use of this form is not an EPA/PC&E requirement.

Attn: Water Div/NPDES Pretreatment

(1) IDENTIFYING INFORMATION

A. LEGAL NAME & MAILING ADDRESS

Amerimax Coated Products, Inc.  
215 Phillips 324 Road  
Helena, AR 72342

B. FACILITY & LOCATION ADDRESS

Amerimax Coated Products, Inc.  
215 Phillips 324 Road  
Helena, AR 72342

C. FACILITY CONTACT: Dave Seiler

TELEPHONE NUMBER: (870) 572-5074

(2) REPORTING PERIOD--FISCAL YEAR From Aug 1 to Jul 31 (Both Semi-Annual Reports must cover Fiscal Year)

A. MONTHS WHICH REPORTS ARE DUE

August & February

B. PERIOD COVERED BY THIS REPORT

FROM: September 2011 TO: February 2012

(3) DESCRIPTION OF OPERATION

A. REGULATED PROCESSES

40 CFR Part 465 -- Coil Coating Point Source Category ①

PROCESS*	PROD'N RATE(S) ②	PROD'N DAYS ③
	Total for Six Months	Number of Operating Days
Subpart A Steel	N/P	
P-rod Subpart B Galv	13,630,244	7.5
P-rod Subpart C Alum	87,291,474	88.5
Subpart D Canmak	N/P	96.0

① There is only one production line in this plant; this line runs both Galvanized & Aluminum rolls.

\*Show Rate & Days--If process is not present, show "Not Present" or "N/P".

② Production must be entered into ANPCAN in square feet (10.76  $\frac{\text{sqft}}{\text{m}^2}$ ) and volume in gallons

(3.785 liters / gallon)

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.

February 2012 SAR

Filed date 2012 02 29

Rec'd by email dated 2-29-12 @ 1:23 pm

AR 00 43389

AFIN 54-00132

C. Number of Regular Employees at this Facility 41

D. [Reserved]

③ The number of production days must be less than 130 days e.g. 5x26 = 130 days. Total production days = 7.5 + 88.5 = 96.0



(4) FLOW MEASUREMENT (CON'D)

B. INDIVIDUAL PROCESS FLOWS DISCHARGED TO POTW IN GALLONS PER DAY (gpd)

Reg-2  
Reg-3

Operation	Ave Tot Flow <sup>1</sup>	Max Tot Flow <sup>2</sup>	Type of Discharge	No. Disc Days
Regulated: Steel Basis				
Regulated: Galv Basis	4,605	67,171		7.8
Regulated: Alum Basis	4,605	67,171		88.5
Regulated: Canmaking				
Total Regulated				
§403.6(e) Unregulated <sup>3</sup>				
§403.6(e) Dilute				
Cooling Water				
Sanitary	1,425	1,425	continuous	
Total Flow to POTW			*****	*****

<sup>1</sup> "Ave Tot Flow" is the average of "total gallons discharged in a 24-hour day" during the reporting period. Note that "Ave Tot Flow" times "No. Disc Days" must equal the actual total gallons discharged to the POTW for this six month period.  
<sup>2</sup> "Max Tot Flow" is the maximum "total gallons discharged in a 24-hour day" during the reporting period.  
<sup>3</sup> "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 Filter Press
- None

B. COMMENTS ON TREATMENT SYSTEM

C. THE INDUSTRIAL USER MUST PERFORM SAMPLING AND ANALYSIS ON THE EFFLUENT FROM ALL REGULATED PROCESSES-- (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	Cd	Cr	Cu	Pb	Ni	Ag	Zn	O&G	CN*	Phen	TTO
MEC (mg/l)		0.95 Alum 1.26 Galv	4.28 Galv				2.58 Alum 3.40 Galv		0.50 Alum 0.68 Galv		
AEC (mg/l)		0.38 Alum 0.51 Galv	2.04 Galv				1.05 Alum 1.46 Galv		0.20 Alum 0.27 Galv		
AMMC (mg/l)		0.007 Alum 0.007 Galv	0.018 Galv				0.37 Alum 0.22 Galv		0.010 Alum 0.010 Galv		
AMAC (mg/l)		0.007 Alum 0.007 Galv	0.018 Galv				0.37 Alum 0.22 Galv		0.010 Alum 0.010 Galv		

\*Provide Conc for February report; the certification may be submitted for the August report if it is applicable.

Sample Location FINAL EFFLUENT TANK

Sample Type (Grab or Composite) GRAB

Number of Samples and Frequency Collected 2 - SEMIANNUALLY

40CFR136 Preservation and Analytical Methods Use:  Yes  No

# AMX\_Production\_Based\_Standards

AMERIMAX COATED PRODUCTS

HELENA, AR

Report Date: **March 2011 to August 2011**

Data Entry Col

## Galvanized Line

Prod'n Rate (Total Sq Footage for 9/1/2011 thru 1/12/2012) .. **13,630,244**  
 Prod'n Days ..... **7.48**  
 Maximum Flow (gpd) ..... 67,171  
 Average Flow (gpd) ..... 4,605  
 Total Flow for the period (gal) ..... **34,429**

## Aluminum Line

Prod'n Rate (Total Sq Footage for 9/1/2011 thru 1/12/2012) .. **87,291,474**  
 Prod'n Days ..... **88.46**  
 Maximum Flow (gpd) ..... 67,171      254,240 liters/day  
 Average Flow (gpd) ..... 4,605      17,429 liters/day  
 Total Flow for the period (gal) ..... **407,325**

\*\*\*\*\*

	<u>Cr</u>	<u>CN</u>	<u>Zn</u>	<u>Cu</u>
<b>Daily Maximum Aluminum</b>				
465.35 Regulatory Allowance (mg/sqmeter)	0.18	0.095	0.49	
Plant Allowable (mg/period)	1,460,266	770,696	3,975,169	
Plant Allowable (mg/liter)	<b>0.95</b>	<b>0.50</b>	<b>2.58</b>	
Measured (mg/l)	<0.007	<0.01	<b>0.370</b>	
<b>Monthly Average Aluminum</b>				
465.35 Regulatory Allowance (mg/sqmeter)	0.072	0.038	0.20	
Plant Allowable (mg/period)	584,107	308,278	1,622,518	
Plant Allowable (mg/liter)	<b>0.38</b>	<b>0.20</b>	<b>1.05</b>	
Measured (mg/l)	<0.007	<0.01	<b>0.370</b>	
<b>Daily Maximum Galvanized Steel</b>				
465.25 Regulatory Allowance (mg/sqmeter)	0.13	0.07	0.35	0.44
Plant Allowable (mg/period)	164,678	88,673	443,363	557,371
Plant Allowable (mg/liter)	<b>1.26</b>	<b>0.68</b>	<b>3.40</b>	<b>4.28</b>
Measured (mg/l)	<0.007	<0.01	<b>0.220</b>	<b>0.018</b>
<b>Monthly Average Galvanized Steel</b>				
465.25 Regulatory Allowance (mg/sqmeter)	0.052	0.028	0.15	0.21
Plant Allowable (mg/period)	65,871	35,469	190,013	266,018
Plant Allowable (mg/liter)	<b>0.51</b>	<b>0.27</b>	<b>1.46</b>	<b>2.04</b>
Measured (mg/l)	<0.007	<0.01	<b>0.220</b>	<b>0.018</b>

The "Plant Allowable" for Galv & Alum should be compared with the analyses submitted by AMX; AMX must sample at least once during the time when the line is running Galv and at least once when the line is running Aluminum. The assumption made is that the one analysis is representative of the six month period for the basis metal of concern.

**(6) CERTIFICATION**

A. CHECK ONE:  CYANIDE ANALYSIS ATTACHED PROVIDED BELOW       EPA REGION VI 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 Coil Coating [40 CFR 465.03(a)] categorical pretreatment standards, since we filed the February semi-annual compliance report; the cyanide analysis, in the February report of this calendar year contain less than 0.07 mg/l. I understand that I can submit this certification for only the August report.

David Seiler  
(Typed Name)

David Seiler  
(Corporate Officer or authorized representative signature)

Date of Signature 2/29/12

B. [Reserved]

[RESERVED]

**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 \_\_\_\_\_, 2004.

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

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

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

§6602 [42 U.S.C. 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(f)]**

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.

David Seiler  
NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE

Plant Manager  
OFFICIAL TITLE



SIGNATURE

2/29/12  
DATE SIGNED

Site Name	4230 Flow Meter								
Isco Quantity	Volume								
Label	Flow Volume								
Units	gal								
Resolution	0								
Significant Digits	0								
		Alum	Galv	gallons on production days only					
9/1/2011 Thu	961	17.34	6.66	961					
9/2/2011 Fri	193								
9/3/2011 Sat	0								
9/4/2011 Sun	0								
9/5/2011 Mon	0								
9/6/2011 Tue	834	24		834	Feb-12	11,637,774	1,748,035	as of 28th	
9/7/2011 Wed	947	24		947	Jan-12	3,904,992	904,728		
9/8/2011 Thu	1,575	24		1,575	Dec-11	7,691,588	882,382		
9/9/2011 Fri	1,289				Nov-11	3,892,875	905,368		
9/10/2011 Sat	0				Oct-11	8,047,353	905,233		
9/11/2011 Sun	0				Sep-11	8,371,155	1,469,376		
9/12/2011 Mon	1,015	23.19	0.81	1,015					
9/13/2011 Tue	1,634	24		1,634					
9/14/2011 Wed	3,098	20.98	3.02	3,098				43,645,737	6,815,122
9/15/2011 Thu	536		3.89	536					
9/16/2011 Fri	636								
9/17/2011 Sat	648								
9/18/2011 Sun	619								
9/19/2011 Mon	2,257	17.61	6.39	2,257	Total 5 months			43,645,737	6,815,122
9/20/2011 Tue	5,104	24		5,104					
9/21/2011 Wed	2,559	24		2,559					
9/22/2011 Thu	1,540	24		1,540					
9/23/2011 Fri	0								
9/24/2011 Sat	218								
9/25/2011 Sun	1,470								
9/26/2011 Mon	3,335	24		3,335	max	average	Total flow		
9/27/2011 Tue	8,801	24		8,801	67,171	4,331	441,754		
9/28/2011 Wed	7,332	24		7,332					
9/29/2011 Thu	1,965	21.87	2.13	1,965					
9/30/2011 Fri	83								
10/1/2011 Sat	51								
10/2/2011 Sun	86								
10/3/2011 Mon	1,606	24		1,606					
10/4/2011 Tue	2,507	24		2,507					
10/5/2011 Wed	4,365	24		4,365					
10/6/2011 Thu	2,537	24		2,537					
10/7/2011 Fri	1,642								
10/8/2011 Sat	108								
10/9/2011 Sun	992								
10/10/2011 Mon	1,317	24		1,317					
10/11/2011 Tue	1,595	24		1,595					
10/12/2011 Wed	6,621	sticking valve	24	6,621					
10/13/2011 Thu	19,033	sticking valve	24	19,033					
10/14/2011 Fri	7,095	sticking valve							
10/15/2011 Sat	1,314								
10/16/2011 Sun	81								
10/17/2011 Mon	324	24		324					
10/18/2011 Tue	1,179	24		1,179					
10/19/2011 Wed	1,199	17.81	6.19	1,199					
10/20/2011 Thu	2,154	8		2,154					
10/21/2011 Fri	89								
10/22/2011 Sat	90								
10/23/2011 Sun	378								
10/24/2011 Mon	15,398	sticking valve	24	15,398					
10/25/2011 Tue	67,171	sticking valve	12	67,171					
10/26/2011 Wed	42,386	sticking valve	24	42,386					
10/27/2011 Thu	2,918		24	2,918					
10/28/2011 Fri	519		15.5	519					
10/29/2011 Sat	0								
10/30/2011 Sun	0								
10/31/2011 Mon	291	24		291					
11/1/2011 Tue	1,652	24		1,652					
11/2/2011 Wed	11,625	24		11,625					
11/3/2011 Thu	3,082	24		3,082					
11/4/2011 Fri	6,657	5		6,657					
11/5/2011 Sat	5,878								
11/6/2011 Sun	5,049								
11/7/2011 Mon	5,265	24		5,265					
11/8/2011 Tue	7,045	24		7,045					
11/9/2011 Wed	8,577	24		8,577					
11/10/2011 Thu	7,025	24		7,025					
11/11/2011 Fri	3,032	8.5		3,032					
11/12/2011 Sat	1,136								
11/13/2011 Sun	276								
11/14/2011 Mon	1,177	16.9	7.1	1,177					
11/15/2011 Tue	2,339	24		2,339					
11/16/2011 Wed	1,997	24		1,997					
11/17/2011 Thu	661	Upgrade part 1 - no production	5.25	661					
11/18/2011 Fri	6	Upgrade part 1 - no production							
11/19/2011 Sat	0	Upgrade part 1 - no production							
11/20/2011 Sun	3	Upgrade part 1 - no production							
11/21/2011 Mon	135	Upgrade part 1 - no production							
11/22/2011 Tue	433	Upgrade part 1 - no production							
11/23/2011 Wed	101	Upgrade part 1 - no production							
11/24/2011 Thu	13	Upgrade part 1 - no production							
11/25/2011 Fri	1	Upgrade part 1 - no production							
11/26/2011 Sat	0	Upgrade part 1 - no production							
11/27/2011 Sun	0	Upgrade part 1 - no production							
11/28/2011 Mon	0		16.83	7.17					
11/29/2011 Tue	977	24		977					
11/30/2011 Wed	1,715	24		1,715					

12/1/2011 Thu	3,129		24		3,129			
12/2/2011 Fri	0	4230 no power upgrading electric for upgrade	24		-			
12/3/2011 Sat	0	4231 no power upgrading electric for upgrade	24		-			
12/4/2011 Sun	0	4232 no power upgrading electric for upgrade	24		-			
12/5/2011 Mon	0	4233 no power upgrading electric for upgrade	17.74	6.26	-			
12/6/2011 Tue	0	4234 no power upgrading electric for upgrade	24		-			
12/7/2011 Wed	0	4235 no power upgrading electric for upgrade	24		-			
12/8/2011 Thu	0	4236 no power upgrading electric for upgrade	24		-			
12/9/2011 Fri	0	4237 no power upgrading electric for upgrade	24		-			
12/10/2011 Sat	0	4238 no power upgrading electric for upgrade	24		-			
12/11/2011 Sun	0	4239 no power upgrading electric for upgrade	24		-			
12/12/2011 Mon	0	4240 no power upgrading electric for upgrade	21.37	2.63	-			
12/13/2011 Tue	0	4241 no power upgrading electric for upgrade	24		-			
12/14/2011 Wed	0	4242 no power upgrading electric for upgrade	24		-			
12/15/2011 Thu	0	4243 no power upgrading electric for upgrade	24		-			
12/16/2011 Fri	30		24		30			
12/17/2011 Sat	250							
12/18/2011 Sun	0							
12/19/2011 Mon	0		14.74	9.26	-			
12/20/2011 Tue	490		24		490			
12/21/2011 Wed	15		24		15			
12/22/2011 Thu	434	shutdown						
12/23/2011 Fri	422	shutdown						
12/24/2011 Sat	2,136	shutdown						
12/25/2011 Sun	1,251	shutdown						
12/26/2011 Mon	1,611	shutdown						
12/27/2011 Tue	3,289	shutdown						
12/28/2011 Wed	3,902	shutdown						
12/29/2011 Thu	4,393	shutdown						
12/30/2011 Fri	3,037	shutdown						
12/31/2011 Sat	1,176	shutdown						
1/1/2012 Sun	28	shutdown						
1/2/2012 Mon	0							
1/3/2012 Tue	484		24		484			
1/4/2012 Wed	860		24		860			
1/5/2012 Thu	2,384		17.21	6.79	2,384			
1/6/2012 Fri	2,535		5.76	18.24	2,535			
1/7/2012 Sat	727							
1/8/2012 Sun	88							
1/9/2012 Mon	866		24		866			
1/10/2012 Tue	214		24		214			
1/11/2012 Wed	2,963		24		2,963			
1/12/2012 Thu	1,795	Upgrade stage 3 - no production						
1/13/2012 Fri	0	Upgrade stage 3 - no production						
1/14/2012 Sat	0	Upgrade stage 3						
1/15/2012 Sun	0	Upgrade stage 3						
1/16/2012 Mon	0	Upgrade stage 3						
1/17/2012 Tue	0	Upgrade stage 3						
1/18/2012 Wed	0	Upgrade stage 3						
1/19/2012 Thu	0	Upgrade stage 3						
1/20/2012 Fri	29	commsionsing with water - no production						
1/21/2012 Sat	948	commsionsing with water - no production						
1/22/2012 Sun	2,140	commsionsing with water - no production						
1/23/2012 Mon	3,104	commsionsing with water - no production						
1/24/2012 Tue	2,383	commsionsing with water - no production						
1/25/2012 Wed	6,421	drain 3 tanks for strip break	24		6,421			
1/26/2012 Thu	2,149		12		2,149			
1/27/2012 Fri	1,245		6.54	17.46	1,245			
1/28/2012 Sat	1,311		24		1,311			
1/29/2012 Sun	1,498		24		1,498			
1/30/2012 Mon	6,797	Adjusting tanks	24		6,797			
1/31/2012 Tue	10,677	Adjusting tanks	0.24		10,677			
2/1/2012 Wed	2,149		24		2,149			
2/2/2012 Thu	4,163		4.84	19.16	4,163			
2/3/2012 Fri	2,791		24		2,791			
2/4/2012 Sat	1,079							
2/5/2012 Sun	815							
2/6/2012 Mon	291		24		291			
2/7/2012 Tue	3,160		24		3,160			
2/8/2012 Wed	2,377		17.38	6.62	2,377			
2/9/2012 Thu	6,007	Adjusting tanks	24		6,007			
2/10/2012 Fri	6,309	Adjusting tanks	24		6,309			
2/11/2012 Sat	7,951	Adjusting tanks	24		7,951			
2/12/2012 Sun	8,653	Adjusting tanks	24		8,653			
2/13/2012 Mon	29,074	Adjusting tanks	4.39	19.61	29,074			
2/14/2012 Tue	19,781	Adjusting tanks	24		19,781			
2/15/2012 Wed	16,166	Adjusting tanks	24		16,166			
2/16/2012 Thu	2,715		24		2,715			
2/17/2012 Fri	354		24		354			
2/18/2012 Sat	762							
2/19/2012 Sun	-							
2/20/2012 Mon	847		24		847			
2/21/2012 Tue	103		24		103			
2/22/2012 0:00	1989.23		24		1,989			
2/23/2012 0:00	223.697		24		224			
2/24/2012 0:00	147.752		24		148			
2/25/2012 0:00	765.117		24		765			
2/26/2012 0:00	199.166							
2/27/2012 0:00	968.336		15.23	8.77	968			
2/28/2012 0:00	1268.76		2.73	21.28	1,269			



Amerimax Coated Products, Inc.  
215 Phillips 324 Road  
Helena, AR 72342

**ANALYTICAL RESULTS**

AIC No. 155604-1

Sample Identification: Alum 2/27/12 6:00pm

<u>Analyte</u>		<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
<b>Total Cyanide</b>		<b>&lt; 0.01</b>	<b>0.01</b>	<b>mg/l</b>	
SM4500-CN C,E	Prep: 28-Feb-2012 1143 by 302	Analyzed: 28-Feb-2012 1632 by 302		Batch: W39062	
<b>Chromium</b>		<b>&lt; 0.007</b>	<b>0.007</b>	<b>mg/l</b>	
EPA 200.7	Prep: 28-Feb-2012 1221 by 295	Analyzed: 29-Feb-2012 0250 by 297		Batch: S31910	
<b>Copper</b>		<b>0.041</b>	<b>0.006</b>	<b>mg/l</b>	
EPA 200.7	Prep: 28-Feb-2012 1221 by 295	Analyzed: 29-Feb-2012 0250 by 297		Batch: S31910	
<b>Zinc</b>		<b>0.37</b>	<b>0.002</b>	<b>mg/l</b>	
EPA 200.7	Prep: 28-Feb-2012 1221 by 295	Analyzed: 29-Feb-2012 0250 by 297		Batch: S31910	

AIC No. 155604-2

Sample Identification: Galv 2/28/12 8:00am

<u>Analyte</u>		<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
<b>Total Cyanide</b>		<b>&lt; 0.01</b>	<b>0.01</b>	<b>mg/l</b>	
SM4500-CN C,E	Prep: 28-Feb-2012 1143 by 302	Analyzed: 28-Feb-2012 1634 by 302		Batch: W39062	
<b>Chromium</b>		<b>&lt; 0.007</b>	<b>0.007</b>	<b>mg/l</b>	
EPA 200.7	Prep: 28-Feb-2012 1221 by 295	Analyzed: 29-Feb-2012 0254 by 297		Batch: S31910	
<b>Copper</b>		<b>0.018</b>	<b>0.006</b>	<b>mg/l</b>	
EPA 200.7	Prep: 28-Feb-2012 1221 by 295	Analyzed: 29-Feb-2012 0254 by 297		Batch: S31910	
<b>Zinc</b>		<b>0.22</b>	<b>0.002</b>	<b>mg/l</b>	
EPA 200.7	Prep: 28-Feb-2012 1221 by 295	Analyzed: 29-Feb-2012 0254 by 297		Batch: S31910	



Amerimax Coated Products, Inc.  
215 Phillips 324 Road  
Helena, AR 72342

**LABORATORY CONTROL SAMPLE RESULTS**

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	0.1 mg/l	91.9	85.0-115			W39062	28Feb12 0948 by 302	28Feb12 1620 by 302		
Chromium	0.5 mg/l	101	85.0-115			S31910	28Feb12 1222 by 295	29Feb12 0149 by 297		
Copper	0.5 mg/l	104	85.0-115			S31910	28Feb12 1222 by 295	29Feb12 0149 by 297		
Zinc	0.5 mg/l	103	85.0-115			S31910	28Feb12 1222 by 295	29Feb12 0149 by 297		

**MATRIX SPIKE SAMPLE RESULTS**

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	155493-3	0.1 mg/l	78.5	75.0-125	W39062	28Feb12 0948 by 302	28Feb12 1623 by 302		
	155493-3	0.1 mg/l	81.0	75.0-125	W39062	28Feb12 0948 by 302	28Feb12 1625 by 302		
	Relative Percent Difference:		3.13	20.0	W39062				
Chromium	155603-3	0.5 mg/l	89.1	75.0-125	S31910	28Feb12 1222 by 295	29Feb12 0152 by 297		
	155603-3	0.5 mg/l	92.8	75.0-125	S31910	28Feb12 1222 by 295	29Feb12 0155 by 297		
	Relative Percent Difference:		4.08	20.0	S31910				
Copper	155603-3	0.5 mg/l	92.2	75.0-125	S31910	28Feb12 1222 by 295	29Feb12 0152 by 297		
	155603-3	0.5 mg/l	96.8	75.0-125	S31910	28Feb12 1222 by 295	29Feb12 0155 by 297		
	Relative Percent Difference:		4.78	20.0	S31910				
Zinc	155603-3	0.5 mg/l	85.3	75.0-125	S31910	28Feb12 1222 by 295	29Feb12 0152 by 297		
	155603-3	0.5 mg/l	90.1	75.0-125	S31910	28Feb12 1222 by 295	29Feb12 0155 by 297		
	Relative Percent Difference:		4.50	20.0	S31910				

**LABORATORY BLANK RESULTS**

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Cyanide	< 0.01 mg/l	0.01	0.01	W39062-1	28Feb12 0948 by 302	28Feb12 1618 by 302	
Chromium	< 0.007 mg/l	0.007	0.007	S31910-1	28Feb12 1222 by 295	29Feb12 0146 by 297	
Copper	< 0.006 mg/l	0.006	0.006	S31910-1	28Feb12 1222 by 295	29Feb12 0146 by 297	
Zinc	< 0.002 mg/l	0.002	0.002	S31910-1	28Feb12 1222 by 295	29Feb12 0146 by 297	





CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: Amalimax Conted

Project Reference: \_\_\_\_\_

Project Manager: Anthony Fleischmann

Sampled By: Anthony Fleischmann

AIC Sample Identification: \_\_\_\_\_ Date/Time Collected: \_\_\_\_\_

AIC No.	Sample Identification	Date/Time Collected	GRA B		COM P		W A T E R		S O I L		No of BOTTLES	Analyses Requested	AIC Control No:	AIC Proposal No:	Carrier:	Received Temperature °C	Remarks	
	<u>Alum</u>	<u>2/27/12 6:00pm</u>	<input checked="" type="checkbox"/>									<u>CYANIDE</u>						
	<u>Galv</u>	<u>2/28/12 5:00AM</u>	<input checked="" type="checkbox"/>									<u>ZINC</u>						

Container Type: \_\_\_\_\_ Preservative: \_\_\_\_\_

G = Glass NO = none P = Plastic S = Sulfuric acid pH2  
NO = none (Please circle) ASAP

Turnaround Time Requested: \_\_\_\_\_

Expedited results requested by: \_\_\_\_\_

Who should AIC contact with questions: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Report Attention to: \_\_\_\_\_

Report Address to: \_\_\_\_\_

Relinquished By: Anthony Fleischmann Date/Time: 2/28/12 11:00AM

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received in Lab By: Anthony Fleischmann Date/Time: 2-28-12 11:00AM

Comments: \_\_\_\_\_

Field pH calibration on \_\_\_\_\_ @ \_\_\_\_\_

Buffer: \_\_\_\_\_

T = Sodium Thiosulfate  
Z = Zinc acetate

Galv	13,630,244	sq ft
Alum	87,291,474	sq ft

Total			
Total Galv WW Flow for 1/9/2011 to 2/28/2012			34,429 gal
Total Alum WW Flow for 1/9/2011 to 2/28/2012			407,325 gal



Amerimax Coated Products, Inc.  
ATTN: Mr. Anthony Fleischmann  
215 Phillips 324 Road  
Helena, AR 72342

This report contains the analytical results and supporting information for samples submitted on February 28, 2012. 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.

A handwritten signature in cursive script that reads 'Steve Bradford'.

Steve Bradford  
Deputy Laboratory Director

This document has been distributed to the following:

PDF cc: Amerimax Coated Products, Inc.  
ATTN: Mr. Anthony Fleischmann  
afleischmann@amerimaxbp.com



Amerimax Coated Products, Inc.  
215 Phillips 324 Road  
Helena, AR 72342

**SAMPLE INFORMATION**

**Project Description:**

Two (2) water sample(s) received on February 28, 2012  
P.O. No. 4312007

**Receipt Details:**

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.

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:**

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
155604-1	Alum 2/27/12 6:00pm	27-Feb-2012 1800	
155604-2	Galv 2/28/12 8:00am	28-Feb-2012 0800	

**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", 20th edition, 1998.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).