

Algonquin Industries Division
1800 Highway 61 South
Osceola, AR 72370

Tel (870) 563-5207
Fax (870) 563-1207



Algonquin Industries Division
Osceola Plant

September 28, 2012

Arkansas Department of Environmental Quality
Mr. Rufus Torrence
5301 Northshore Drive
North Little Rock, AR 72118-5328
501-682-0626

Re: Submittal of Semi-Annual Report, Osceola Plant

Dear Mr. Torrence:

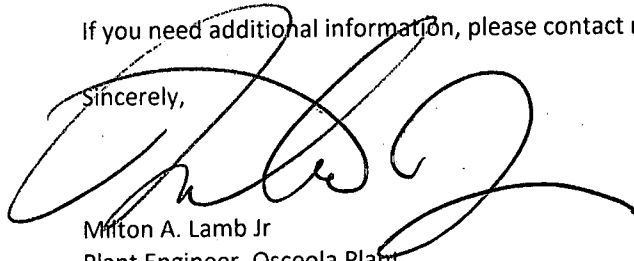
Please find enclosed the above referenced document and copies of the analytical results of the sampling used to determine compliance.

Please note the following:

1. A revised version of ADEQ's semi-annual report form was used. The form was revised to clarify information for both ADEQ and Algonquin. The form meets all of the informational requirements of 40 CFR 403.12(e).
2. Limitations for batch discharges were calculated using the production data from a specific time period beginning with the date of the most recent batch discharge and ending with the date the samples (reported herein) were collected. Production data for partial (split) months were prorated.

If you need additional information, please contact me at (870) 622-4418.

Sincerely,



Milton A. Lamb Jr
Plant Engineer, Osceola Plant
Rea Magnet Wire Company, Inc.
Algonquin Industries Division

Enclosures

cc: James Carlock, Superintendent
Osceola Water Dept
PO Box 443
Osceola, AR 72370

SEMI-ANNUAL REPORT FOR USERS REGULATED BY THE Al & Cu FORMING CATEGORIES

ATTN: Water Div/NPDES Pretreatment

(1) IDENTIFYING INFORMATION																												
<p>A. LEGAL NAME & MAILING ADDRESS</p> <p align="center">Rea Magnet Wire, Algonquin Industries, Osceola Plant 1800 Highway 61 South Osceola, AR 72370</p>	<p>B. FACILITY & LOCATION ADDRESS</p> <p align="center">Rea Magnet Wire, Algonquin Industries, Osceola Plant 1800 Highway 61 South Osceola, AR 72370</p>																											
<p>C. FACILITY CONTACT: Milton A. Lamb Jr. TELEPHONE NUMBER: 870-622-4418 mlamb@reawire.com</p>																												
(2) REPORTING PERIOD--FISCAL YEAR																												
<p>2012 (Both Semi-Annual Reports to Cover Fiscal Year)</p>																												
<p>A. MONTHS WHICH REPORTS ARE DUE</p> <p align="center">September & March</p>	<p>B. PERIOD COVERED BY THIS REPORT</p> <p>FROM: March 31, 2012 - September 30, 2012</p>																											
(3) DESCRIPTION OF OPERATION																												
<p>A. Regulated Processes per 40 CFR Part 467 (Aluminum) Subpart A & C and 40 CFR Part 468 (Copper) Subpart A</p> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left; padding: 5px;">PROCESS</th> <th style="text-align: center; padding: 5px;">PRODUCTION-OFF/LB</th> <th style="text-align: center; padding: 5px;">PRODUCTION DAYS¹</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Rolled Aluminum (§467.15 Solution Heat Treatment)</td> <td style="text-align: center; padding: 5px;">245,076</td> <td style="text-align: center; padding: 5px;">7/1/2011 – 9/25/2012 452 days</td> </tr> <tr> <td style="padding: 5px;">Extruded Aluminum (§467.35 Core Die Cleaning)</td> <td style="text-align: center; padding: 5px;">1,757,849</td> <td style="text-align: center; padding: 5px;">4/1/2012 – 9/25/2012 178</td> </tr> <tr> <td style="padding: 5px;">Extruded Aluminum (§467.35 Press Heat Treatment) C300</td> <td style="text-align: center; padding: 5px;">2,911,663</td> <td style="text-align: center; padding: 5px;">10/23/2009 – 9/25/2012 1050 days</td> </tr> <tr> <td style="padding: 5px;">(§467.35 Press Heat Treatment) C350</td> <td style="text-align: center; padding: 5px;">1,233,692</td> <td style="text-align: center; padding: 5px;">5/31/2011 – 9/25/2012 483 days</td> </tr> <tr> <td style="padding: 5px;">Rolled Copper (§468.14(d) Solution Heat Treatment)</td> <td style="text-align: center; padding: 5px;">4,626,755</td> <td style="text-align: center; padding: 5px;">7/1/2011 – 9/25/2012 452 days</td> </tr> <tr> <td style="padding: 5px;">Extruded Copper (§468.14(k) Pickling Rinse) C285</td> <td style="text-align: center; padding: 5px;">10,412,923</td> <td style="text-align: center; padding: 5px;">9/1/2010 – 9/25/2012 755 days</td> </tr> <tr> <td style="padding: 5px;">(§468.14(m) Pickling Bath) C285</td> <td style="text-align: center; padding: 5px;">10,412,923</td> <td style="text-align: center; padding: 5px;">9/1/2010 – 9/25/2012 755 days</td> </tr> <tr> <td style="padding: 5px;">(§468.14(e) Extrusion Heat Treatment) C285</td> <td style="text-align: center; padding: 5px;">10,412,923</td> <td style="text-align: center; padding: 5px;">9/1/2010 – 9/25/2012 755 days</td> </tr> </tbody> </table> <p style="font-size: small; margin-top: 10px;">¹The entry for "Production Days" for solution, press heat treatment, and pickling and rinse operations are dates of the batch discharges or initial startup and the dates of the sampling. Only the Core Die Cleaning operation has a continuous discharge</p>	PROCESS	PRODUCTION-OFF/LB	PRODUCTION DAYS ¹	Rolled Aluminum (§467.15 Solution Heat Treatment)	245,076	7/1/2011 – 9/25/2012 452 days	Extruded Aluminum (§467.35 Core Die Cleaning)	1,757,849	4/1/2012 – 9/25/2012 178	Extruded Aluminum (§467.35 Press Heat Treatment) C300	2,911,663	10/23/2009 – 9/25/2012 1050 days	(§467.35 Press Heat Treatment) C350	1,233,692	5/31/2011 – 9/25/2012 483 days	Rolled Copper (§468.14(d) Solution Heat Treatment)	4,626,755	7/1/2011 – 9/25/2012 452 days	Extruded Copper (§468.14(k) Pickling Rinse) C285	10,412,923	9/1/2010 – 9/25/2012 755 days	(§468.14(m) Pickling Bath) C285	10,412,923	9/1/2010 – 9/25/2012 755 days	(§468.14(e) Extrusion Heat Treatment) C285	10,412,923	9/1/2010 – 9/25/2012 755 days	<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>
PROCESS	PRODUCTION-OFF/LB	PRODUCTION DAYS ¹																										
Rolled Aluminum (§467.15 Solution Heat Treatment)	245,076	7/1/2011 – 9/25/2012 452 days																										
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<p>C. Number of Regular Employees at this Facility: <u>42</u></p>	<p>D. [Reserved]</p>																											

(4) FLOW MEASUREMENT**B. INDIVIDUAL PROCESS WASTESTREAMS DISCHARGED TO POTW**

Operation	Average Flow Rate (gpd)	Number of Discharge Days	Batch Discharge Volume	Type of Discharge
Process:				
§467.15 Solution Heat Treatment ¹ (Aluminum Rolling)	NA	NA	26,667 gallons discharged to the POTW July 1, 2011 (most recent discharge)	Batch discharge from recirculation pond
§467.35 Cleaning or Etching Rinse (Aluminum Extrusion)	NA	NA	Not in service	Batch discharge to either POTW or waste oil tank
467.35 Cleaning or Etching Bath (Aluminum Extrusion)	NA	NA	Not in service	Batch discharge to either POTW or waste oil tank
§467.35 Press Heat Treatment (Aluminum Extrusion)	NA	NA	Not in service	Batch discharge from Aluminum Extrusion (C-350) Product Cooling Tank
§468.14(m) Pickling Bath (Copper Extrusion)	NA	NA	Two 200-gallon tanks sent for disposal on September 1, 2010 (most recent discharge)	Batch discharge to either POTW or waste oil tank
§468.14(k) Pickling Rinse (Copper Extrusion)	NA	NA	Not in service	Batch discharge to either POTW or waste oil tank
§468.14(e) Extrusion Heat Treatment (Copper Extrusion)	NA	NA	One 200-gallon tank sent for disposal on September 1, 2010 (most recent discharge)	Batch discharge from Copper Extrusion (C-285) Product Cooling Tank
§467.35 Core-Die Cleaner (Aluminum Extrusion)	20	N/A	N/A	Intermittent
§467.35 Press Heat Treatment (Aluminum Extrusion)	NA	NA	One 300-gallon tanks one discharged to the POTW on October 23, 2009. (most recent discharge)	Batch discharge from Aluminum Extrusion (C-300 & C-500) Cooling Water Tank
§468.14(d) Solution Heat Treatment ¹ (Copper Forming [Rolling])	NA	NA	26,667 gallons discharged to the POTW July 1, 2011 (most recent discharge)	Batch discharge from recirculation pond
§403.6(e) Unregulated:				
Air compressor condensate blowdown	10 (estimate)	129	N/A	Intermittent
Steam clean forklift wash area	5 (estimate)	129	N/A	Intermittent
§403.6(e) Dilute:				
Cooling water ¹	NA	NA	26,667 gallons discharged to the POTW July 1, 2011 (most recent discharge)	Batch discharge from recirculation pond
Sanitary	6,000 (estimate)	129	N/A	Continuous

¹The 80,000 gallon batch discharge is comprised of several regulated and diluted source waters.

(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

SEMI-ANNUAL REPORT

FACILITY NAME: Algonquin Industries

C. THE INDUSTRIAL USER MUST PERFORM SAMPLING AND ANALYSIS ON 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.

Concentrations (mg/l)	Cr	Cu	Pb	Ni	Zn	TTO	O&G	CN
C-500 Cooling Water Tank (Aluminum Extrusion) Allowable Concentrations	NA	NA	NA	NA	NA	NA	NA	NA
C-500 Cooling Water Tank Measured Concentrations	NA	NA	NA	NA	NA	NA	NA	NA
C-300 Cooling Water Tank (Aluminum Extrusion) Allowable Concentrations	430	NA	NA	NA	1454	NA	61,678	290
C-300 Cooling Water Tank Measured Concentrations	<0.007	NA	NA	NA	0.026	NA	<5	<0.01
Die Cleaning Allowable Concentrations ¹	8.8 3.6	NA	NA	NA	29 ^{12.4}	NA	1066 521	2.3
Die Cleaning Measured Concentrations	<0.007	NA	NA	NA	0.16	NA	<5	<0.01
Pond Allowable Concentration	0.940	4.480	0.576	5.686	3.191	NA	73.225	0.092
Pond Measured Concentration	<0.007	0.12	<0.04	<0.01	0.016	NA	<5	<0.01
C-350 Aluminum Extrusion Tank 1 (Cleaning or Etching Bath)	NA	NA	NA	NA	NA	NA	NA	NA
C-350 Aluminum Extrusion Tank 1 Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-350 Aluminum Extrusion Tank 2 (Cleaning or Etching Rinse)	NA	NA	NA	NA	NA	NA	NA	NA
C-350 Aluminum Extrusion Tank 2 Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-350 Aluminum Extrusion Tank 3 (Cleaning or Etching Rinse)	NA	NA	NA	NA	NA	NA	NA	NA
C-350 Aluminum Extrusion Tank 3 Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-350 Aluminum Extrusion Tank 4 (Cleaning or Etching Bath)	NA	NA	NA	NA	NA	NA	NA	NA
C-350 Aluminum Extrusion Tank 4 Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-350 Cooling Water Tank (Aluminum Extrusion) Allowable Concentrations	335.8	NA	NA	NA	1,134	NA	48,098	226.9
C-350 Cooling Water Tank Measured Concentrations	<0.007	NA	NA	NA	0.014	NA	<5	<0.01
C-285 Copper Extrusion Tank 1 (Pickling Bath)	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 1 Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 2 (Pickling Rinse)	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 2 Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 3 (Pickling Bath)	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 3 Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 4 (Pickling Rinse)	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 4 Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 5 (Pickling Rinse)	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 5 Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 6 (Pickling Bath)	117.8	683.1	88.3	865.7	412.2	NA	8198	NA
C-285 Copper Extrusion Tank 6 Measured Concentration	<0.007	0.99	<0.04	<0.01	0.026	NA	<5	<0.01
C-285 Cooling Water Tank (Copper Extrusion) Allowable Concentrations	0.899	4.994	0.649	4.994	2.497	NA	59.9	NA
C-285 Cooling Water Tank Measured Concentrations ^{2,3}	<0.007	0.99	<0.04	<0.01	0.026	NA	<5	<0.01

40CFR136 Preservation and Analytical Methods Use: Yes No

¹ Listed as daily maximum and monthly average respectively

² Contents of tank not released to POTW

³ Volume composite sample taken for all tanks

(6) CERTIFICATION

A. CHECK ONE: CYANIDE ANALYSIS ATTACHED CYANIDE CERTIFICATION PROVIDED BELOW (September SAR Only)

In accordance with §467.03(a), 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 and will not be used or generated in our processes which are regulated by the Aluminum Forming (40 CFR 467.35) categorical pretreatment standards since analyzing the first wastewater sample in January, February, or March of this calendar year; and that the results of the first analysis contained less than 0.07 mg/l cyanide.

(Typed Name)

(Corporate Officer or authorized representative)

Date of Signature _____

B. CHECK ONE: REQUIRED TOXIC ORGANIC ANALYSIS ATTACHED O&G ANALYSIS ATTACHED

In accordance with §467.03(b) & §468.03(b), as an alternative monitoring procedure for pretreatment, the POTW user may measure and limit oil and grease to the levels shown in Section 5.C in lieu of measuring and regulating total toxic organics (TTO).

CORPORATE ACKNOWLEDGEMENT (Optional)

STATE OF ARKANSAS
COUNTY OF MISSISSIPPI

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 _____, 199__.

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 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 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.

Matthew Stowe
NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE

General Manager Operations
OFFICIAL TITLE


SIGNATURE

28 Sep 2012
DATE SIGNED

ATTACHMENT 1

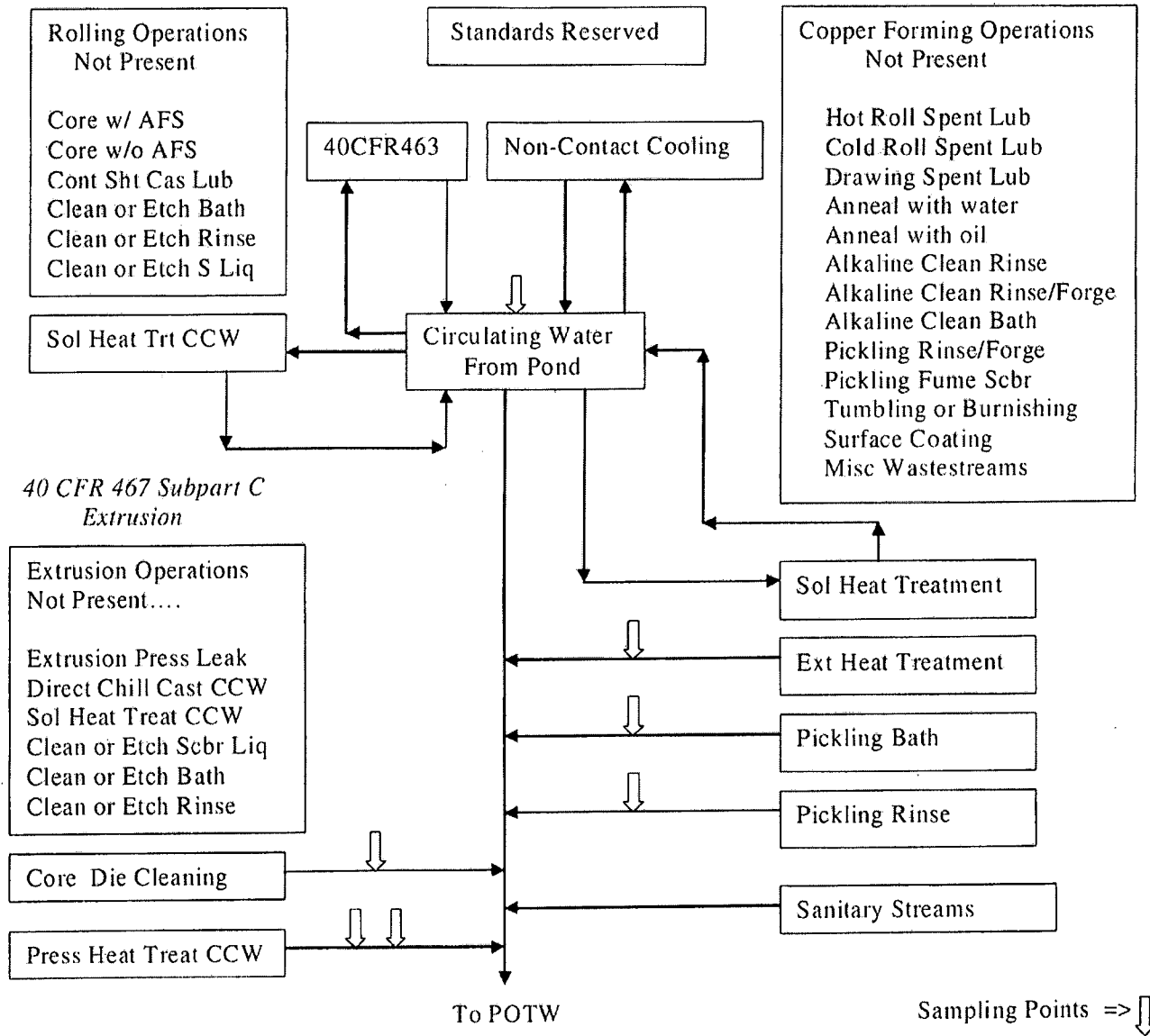
Flow Schematics

Algonquin Industries Osceola, Arkansas March 2011

40 CFR 467 Subpart A Operations
Rolling with Neat Oils

40CFR463 Subpart A
Contact Cooling

40 CFR 468 Subpart A Operations
Copper Forming



§403.6(e) Nonregulated Streams
Not Present

§403.6(d) Dilution is not applicable
to facilities with only prod-based
streams.

If a stream is not present, show NOT PRESENT or N/P. If a stream is present, the wastewater can enter the POTW but currently has no flow, show 0.0 gpd. If a stream is present, the wastewater cannot enter the POTW, show Zero Discharge or Z/D. If an unregulated stream is present but the User has decided not to declare it at this time, show N/P.

Signature of §403.12(b) Professional _____
Date _____
I certify under penalty of law that I have personally examined and am familiar with the information in this document and that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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.

Plant Manager or the authorized §403.12(l) official

Date
20 Sep 2012
AGQ Diagram (March 21, 2011)

ATTACHMENT 2

Sampling and Analysis Results



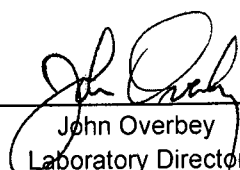
September 27, 2012
Control No. 161223
Page 1 of 5

Algonquin Industries
ATTN: Mr. Milton Lamb
1800 Highway 61 South
Osceola, AR 72370

This report contains the analytical results and supporting information for samples submitted on September 26, 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.



John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: Algonquin Industries
ATTN: Mr. Milton Lamb
mlamb@algonquin-industries.com



Algonquin Industries
1800 Highway 61 South
Osceola, AR 72370

SAMPLE INFORMATION

Project Description:

Five (5) water sample(s) received on September 26, 2012
POTW DMR
P.O. No. 411584

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:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
161223-1	C300 9/25 12:30	25-Sep-2012 1230	
161223-2	C350 9/25 12:45	25-Sep-2012 1245	
161223-3	Die Cleaning 9/25 12:15	25-Sep-2012 1215	
161223-4	C285 9/25 1:00pm	25-Sep-2012 1300	
161223-5	Pond 9/25 12:05pm	25-Sep-2012 1205	

Qualifiers:

D Result is from a secondary dilution factor

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).



Algonquin Industries
1800 Highway 61 South
Osceola, AR 72370

ANALYTICAL RESULTS

AIC No. 161223-1
Sample Identification: C300 9/25 12:30

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Cyanide SM 4500-CN C,E Prep: 26-Sep-2012 0955 by 306	< 0.01 Analyzed: 26-Sep-2012 1539 by 306	0.01	mg/l Batch: W41144	
Chromium EPA 200.8 Prep: 26-Sep-2012 1037 by 270	< 0.007 Analyzed: 26-Sep-2012 1601 by 305	0.007	mg/l Batch: S33201	
Zinc EPA 200.8 Prep: 26-Sep-2012 1037 by 270	0.026 Analyzed: 26-Sep-2012 1601 by 305	0.002	mg/l Batch: S33201	
Oil and Grease EPA 1664A Prep: 26-Sep-2012 0916 by 295	< 5 Analyzed: 27-Sep-2012 0820 by 295	5	mg/l Batch: B7890	

AIC No. 161223-2
Sample Identification: C350 9/25 12:45

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Cyanide SM 4500-CN C,E Prep: 26-Sep-2012 0955 by 306	< 0.01 Analyzed: 26-Sep-2012 1544 by 306	0.01	mg/l Batch: W41144	
Chromium EPA 200.8 Prep: 26-Sep-2012 1037 by 270	< 0.007 Analyzed: 26-Sep-2012 1605 by 305	0.007	mg/l Batch: S33201	
Zinc EPA 200.8 Prep: 26-Sep-2012 1037 by 270	0.014 Analyzed: 26-Sep-2012 1605 by 305	0.002	mg/l Batch: S33201	
Oil and Grease EPA 1664A Prep: 26-Sep-2012 0916 by 295	< 5 Analyzed: 27-Sep-2012 0820 by 295	5	mg/l Batch: B7890	

AIC No. 161223-3
Sample Identification: Die Cleaning 9/25 12:15

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Cyanide SM 4500-CN C,E Prep: 26-Sep-2012 0955 by 306	< 0.01 Analyzed: 26-Sep-2012 1546 by 306	0.01	mg/l Batch: W41144	
Chromium EPA 200.8 Prep: 26-Sep-2012 1037 by 270	< 0.007 Analyzed: 26-Sep-2012 1610 by 305	0.007	mg/l Batch: S33201	
Zinc EPA 200.8 Prep: 26-Sep-2012 1037 by 270	0.16 Analyzed: 26-Sep-2012 1610 by 305	0.002	mg/l Batch: S33201	
Oil and Grease EPA 1664A Prep: 26-Sep-2012 0916 by 295	< 5 Analyzed: 27-Sep-2012 0820 by 295	5	mg/l Batch: B7890	

AIC No. 161223-4
Sample Identification: C285 9/25 1:00pm

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Cyanide SM 4500-CN C,E Prep: 26-Sep-2012 0955 by 306	< 0.01 Analyzed: 26-Sep-2012 1548 by 306	0.01	mg/l Batch: W41144	
Chromium EPA 200.8 Prep: 26-Sep-2012 1037 by 270	< 0.007 Analyzed: 26-Sep-2012 1614 by 305	0.007	mg/l Batch: S33201	



Algonquin Industries
1800 Highway 61 South
Osceola, AR 72370

ANALYTICAL RESULTS

AIC No. 161223-4 (Continued)
Sample Identification: C285 9/25 1:00pm

Analyte	Result	RL	Units	Qualifier
Copper EPA 200.8	0.99	0.03	mg/l	D
Prep: 26-Sep-2012 1037 by 270	Analyzed: 26-Sep-2012 1837 by 270		Batch: S33201	Dil: 5
Lead EPA 200.8	< 0.04	0.04	mg/l	
Prep: 26-Sep-2012 1037 by 270	Analyzed: 26-Sep-2012 1614 by 305		Batch: S33201	
Nickel EPA 200.8	< 0.01	0.01	mg/l	
Prep: 26-Sep-2012 1037 by 270	Analyzed: 26-Sep-2012 1614 by 305		Batch: S33201	
Zinc EPA 200.8	0.026	0.002	mg/l	
Prep: 26-Sep-2012 1037 by 270	Analyzed: 26-Sep-2012 1614 by 305		Batch: S33201	
Oil and Grease EPA 1664A	< 5	5	mg/l	
Prep: 26-Sep-2012 0916 by 295	Analyzed: 27-Sep-2012 0820 by 295		Batch: B7890	

AIC No. 161223-5
Sample Identification: Pond 9/25 12:05pm

Analyte	Result	RL	Units	Qualifier
Total Cyanide SM 4500-CN C,E	< 0.01	0.01	mg/l	
Prep: 26-Sep-2012 0955 by 306	Analyzed: 26-Sep-2012 1550 by 306		Batch: W41144	
Chromium EPA 200.8	< 0.007	0.007	mg/l	
Prep: 26-Sep-2012 1037 by 270	Analyzed: 26-Sep-2012 1618 by 305		Batch: S33201	
Copper EPA 200.8	0.12	0.006	mg/l	
Prep: 26-Sep-2012 1037 by 270	Analyzed: 26-Sep-2012 1618 by 305		Batch: S33201	
Lead EPA 200.8	< 0.04	0.04	mg/l	
Prep: 26-Sep-2012 1037 by 270	Analyzed: 26-Sep-2012 1618 by 305		Batch: S33201	
Nickel EPA 200.8	< 0.01	0.01	mg/l	
Prep: 26-Sep-2012 1037 by 270	Analyzed: 26-Sep-2012 1618 by 305		Batch: S33201	
Zinc EPA 200.8	0.016	0.002	mg/l	
Prep: 26-Sep-2012 1037 by 270	Analyzed: 26-Sep-2012 1618 by 305		Batch: S33201	
Oil and Grease EPA 1664A	< 5	5	mg/l	
Prep: 26-Sep-2012 0916 by 295	Analyzed: 27-Sep-2012 0820 by 295		Batch: B7890	



Algonquin Industries
1800 Highway 61 South
Osceola, AR 72370

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	0.1 mg/l	88.9	85.0-115			W41144	26Sep12 0955 by 306	26Sep12 1537 by 306		
Chromium	0.05 mg/l	100	85.0-115			S33201	26Sep12 1038 by 270	26Sep12 1549 by 305		
Copper	0.05 mg/l	100	85.0-115			S33201	26Sep12 1038 by 270	26Sep12 1549 by 305		
Lead	0.05 mg/l	101	85.0-115			S33201	26Sep12 1038 by 270	26Sep12 1549 by 305		
Nickel	0.05 mg/l	98.8	85.0-115			S33201	26Sep12 1038 by 270	26Sep12 1549 by 305		
Zinc	0.05 mg/l	98.2	85.0-115			S33201	26Sep12 1038 by 270	26Sep12 1549 by 305		
Oil and Grease	40 mg/l	94.2	78.0-114			B7890	26Sep12 0918 by 295	27Sep12 0820 by 295		
	40 mg/l	96.2	78.0-114	2.10	20.0	B7890	26Sep12 0918 by 295	27Sep12 0820 by 295		

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	161223-1	0.1 mg/l	98.3	75.0-125	W41144	26Sep12 0955 by 306	26Sep12 1541 by 306		
	161223-1	0.1 mg/l	96.6	75.0-125	W41144	26Sep12 0955 by 306	26Sep12 1543 by 306		
	Relative Percent Difference:		1.74	20.0	W41144				
Chromium	161223-1	0.05 mg/l	97.7	75.0-125	S33201	26Sep12 1038 by 270	26Sep12 1553 by 305		
	161223-1	0.05 mg/l	96.7	75.0-125	S33201	26Sep12 1038 by 270	26Sep12 1557 by 305		
	Relative Percent Difference:		1.00	20.0	S33201				
Copper	161223-1	0.05 mg/l	95.5	75.0-125	S33201	26Sep12 1038 by 270	26Sep12 1553 by 305		
	161223-1	0.05 mg/l	94.6	75.0-125	S33201	26Sep12 1038 by 270	26Sep12 1557 by 305		
	Relative Percent Difference:		0.894	20.0	S33201				
Lead	161223-1	0.05 mg/l	88.9	75.0-125	S33201	26Sep12 1038 by 270	26Sep12 1553 by 305		
	161223-1	0.05 mg/l	88.5	75.0-125	S33201	26Sep12 1038 by 270	26Sep12 1557 by 305		
	Relative Percent Difference:		0.461	20.0	S33201				
Nickel	161223-1	0.05 mg/l	94.7	75.0-125	S33201	26Sep12 1038 by 270	26Sep12 1553 by 305		
	161223-1	0.05 mg/l	95.6	75.0-125	S33201	26Sep12 1038 by 270	26Sep12 1557 by 305		
	Relative Percent Difference:		0.983	20.0	S33201				
Zinc	161223-1	0.05 mg/l	96.5	75.0-125	S33201	26Sep12 1038 by 270	26Sep12 1553 by 305		
	161223-1	0.05 mg/l	97.5	75.0-125	S33201	26Sep12 1038 by 270	26Sep12 1557 by 305		
	Relative Percent Difference:		0.945	20.0	S33201				

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Cyanide	< 0.01 mg/l	0.01	0.01	W41144-1	26Sep12 0955 by 306	26Sep12 1535 by 306	
Chromium	< 0.007 mg/l	0.007	0.007	S33201-1	26Sep12 1038 by 270	26Sep12 1545 by 305	
Copper	< 0.006 mg/l	0.006	0.006	S33201-1	26Sep12 1038 by 270	26Sep12 1545 by 305	
Lead	< 0.04 mg/l	0.04	0.04	S33201-1	26Sep12 1038 by 270	26Sep12 1545 by 305	
Nickel	< 0.01 mg/l	0.01	0.01	S33201-1	26Sep12 1038 by 270	26Sep12 1545 by 305	
Zinc	< 0.002 mg/l	0.002	0.002	S33201-1	26Sep12 1038 by 270	26Sep12 1545 by 305	
Oil and Grease	< 5 mg/l	5	5	B7890-1	26Sep12 0918 by 295	27Sep12 0820 by 295	

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: <u>REA MAGNET WIRE</u> <u>ALBONQUIN INDUSTRIES</u>			PO No.		No of BOTTLES	Analyses Requested										AIC Control No: <u>161725</u>					
Project Reference: <u>POTW DMR</u>			Sample Matrix			OIL & GREASE	Cd	Zn	Pb	Cu	Mn	Ni	Cr	Fe	As	Se	Hg	Ag	Au	AIC Proposal No:	
Project Manager: <u>MILTON LAMB</u>			W	S																	
Sampled By: <u>TIM PIERCE</u>			G	C											Received Temperature °C <u>20</u>						
AIC No.	Sample Identification	Date/Time Collected	A	B	P	R	L														Remarks
1	C300	9/25 1230	X			X															
2	C350	9/25 1245	X			X															
7	DIE CLEANING	9/25 1215	X			X															
4	C285	9/25 1100pm		X		X															
5	POND	9/25 12:05	X			X															
Field pH calibration on _____ @ _____			Container Type												Buffer:						
Preservative																					
G = Glass NO = none			P = Plastic S = Sulfuric acid pH2		V = VOA vials N = Nitric acid pH2					H = HCl to pH2 B = NaOH to pH12					T = Sodium Thiosulfate Z = Zinc acetate						
Turnaround Time Requested: (Please circle) NORMAL or <u>EXPEDITED</u> IN <u>1</u> DAYS						Relinquished By: <u>Tim Pierce</u>		Date/Time: <u>9/25 1100pm</u>		Received By:		Date/Time:									
Expedited results requested by: <u>MILTON LAMB</u>						Relinquished By:		Date/Time:		Received in Lab By: <u>[Signature]</u>		Date/Time: <u>9-26-12 8:30am</u>									
Who should AIC contact with questions: <u>MILTON LAMB</u>						Comments:						7990 4583950x									
Phone: <u>252-684-9900</u> Fax: _____						Report Attention to: <u>MILTON LAMB</u>						Report Address to: <u>mlamb@reawire.com</u>									

ER

FREE

Express

RT 177 1 A
6032
10.03
IFZ

From: (870) 622-9804
Vivian Avalos
Rea Algonquin Industries
1800 S US Highway 61
Osceola, AR 72370

Origin ID: JBRA



Ship Date: 02OCT12
ActWgt: 0.5 LB
CAD: 102379368/NET3300

Delivery Address Bar Code



Ref #
Invoice #
PO #
Dept #

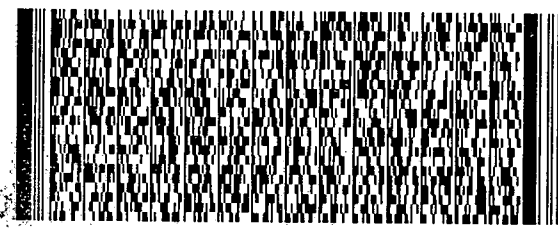
SHIP TO: (501) 682-0626
Mr. Rufus Torrence
AR Dept of Environmental Quality
5301 NORTSHORE DR

BILL SENDER

NORTH LITTLE ROCK, AR 72118

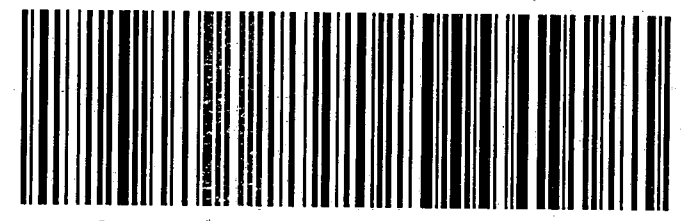
WED - 03 OCT A4
STANDARD OVERNIGHT

TRK# 7990 9592 6032
0201



X2 LITA

72118
AR-US
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515G19CCB/AA44

The World On Time.

Envelope

Align bottom of **Peel and Stick Airbill** or **Pouch** here.