

Wilson, Tabatha

From: Torrence, Rufus
Sent: Wednesday, October 02, 2013 1:51 PM
To: rstrain@reawire.com
Cc: Stowe, Matt; Wilson, Tabatha
Subject: ARP000020 AR0021580 AFIN 47-00209 Algonquin September 2012 Semi-Annual Report
Attachments: AGQ Sep 2013 Report A0000VXW1.pdf
Follow Up Flag: Follow up
Flag Status: Flagged



October 2, 2013

Ricky Strain, Plant Manager
Algonquin Industries
1800 Highway 61 South
Osceola, AR 72370

Re: Algonquin's September 2013 Semi-Annual Report
(Permit No. AR0021580 AFIN 47-00209)

Dear Mr. Strain:

The Department has reviewed Algonquin's September 2013 Semi-annual Pretreatment Report and the report is complete.

The Department appreciates Algonquin'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.

Sincerely,



Rufus Torrence, Pretreatment Engineer
Water Division

ARKANSAS DEPARTMENT OF
5301 NORTHSIDE DRIVE / NORTH LITTLE ROCK / ARKANSAS
www.ade



Rea Magnet Wire Company, Inc.

September 27, 2013

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) 622-4425.

Sincerely,

P. P.

Ricky Strain
Plant Manager, Osceola Plant
Rea Magnet Wire Company, Inc.

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																															
A. LEGAL NAME & MAILING ADDRESS Rea Magnet Wire, Algonquin Industries, Osceola Plant 1800 Highway 61 South Osceola, AR 72370	B. FACILITY & LOCATION ADDRESS Rea Magnet Wire, Algonquin Industries, Osceola Plant 1800 Highway 61 South Osceola, AR 72370																														
C. FACILITY CONTACT: Ricky Strain (rstrain@reawire.com) TELEPHONE NUMBER: 870-622-4425																															
(2) REPORTING PERIOD--FISCAL YEAR																															
2013 (Both Semi-Annual Reports to Cover Fiscal Year)																															
A. MONTHS WHICH REPORTS ARE DUE	B. PERIOD COVERED BY THIS REPORT																														
September & March	FROM: March 31, 2013 – September 30, 2013																														
(3) DESCRIPTION OF OPERATION																															
A. Regulated Processes per 40 CFR Part 467 (Aluminum) Subpart A & C and 40 CFR Part 468 (Copper) Subpart A <table border="1"> <thead> <tr> <th>PROCESS</th> <th>PRODUCTION-OFF/LB</th> <th>PRODUCTION DAYS¹</th> </tr> </thead> <tbody> <tr> <td>Rolled Aluminum (\$467.15 Solution Heat Treatment)</td> <td>Pond¹ 1,399,129</td> <td>7/1/2011 – 8/22/2013 783 days</td> </tr> <tr> <td>Extruded Aluminum (\$467.35 Core Die Cleaning)</td> <td>1,283,134</td> <td>3/31/2013 – 9/30/2013 144 continuous</td> </tr> <tr> <td>Extruded Aluminum (\$467.35 Press Heat Treatment) C300</td> <td>1,306,456 745,555</td> <td>3/31/2013 – 8/22/2013 144 days</td> </tr> <tr> <td>(\$467.35 Press Heat Treatment) C350</td> <td>560,901</td> <td>3/31/2013 – 8/22/2013 144 days</td> </tr> <tr> <td>Rolled Copper (\$468.14(d) Solution Heat Treatment)</td> <td>Pond¹ 8,009,484</td> <td>7/1/2011 – 8/22/2013 783 days</td> </tr> <tr> <td>C/E Bath & Rinse</td> <td>0</td> <td></td> </tr> <tr> <td>Extruded Copper (\$468.14(k) Pickling Rinse) C285</td> <td>1,709,949</td> <td>3/31/2013 – 8/22/2013 144 days</td> </tr> <tr> <td>(\$468.14(m) Pickling Bath) C285</td> <td>5,129,847 1,709,949</td> <td>3/31/2013 – 8/22/2013 144 days</td> </tr> <tr> <td>(\$468.14(e) Extrusion Heat Treatment) C285</td> <td>1,709,949</td> <td>3/31/2013 – 8/22/2013 144 days</td> </tr> </tbody> </table>	PROCESS	PRODUCTION-OFF/LB	PRODUCTION DAYS ¹	Rolled Aluminum (\$467.15 Solution Heat Treatment)	Pond ¹ 1,399,129	7/1/2011 – 8/22/2013 783 days	Extruded Aluminum (\$467.35 Core Die Cleaning)	1,283,134	3/31/2013 – 9/30/2013 144 continuous	Extruded Aluminum (\$467.35 Press Heat Treatment) C300	1,306,456 745,555	3/31/2013 – 8/22/2013 144 days	(\$467.35 Press Heat Treatment) C350	560,901	3/31/2013 – 8/22/2013 144 days	Rolled Copper (\$468.14(d) Solution Heat Treatment)	Pond ¹ 8,009,484	7/1/2011 – 8/22/2013 783 days	C/E Bath & Rinse	0		Extruded Copper (\$468.14(k) Pickling Rinse) C285	1,709,949	3/31/2013 – 8/22/2013 144 days	(\$468.14(m) Pickling Bath) C285	5,129,847 1,709,949	3/31/2013 – 8/22/2013 144 days	(\$468.14(e) Extrusion Heat Treatment) C285	1,709,949	3/31/2013 – 8/22/2013 144 days	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. ADEQ NOTES: Sep 2013 Semi-Annual Report Rec'd 9-30-13 ARP000020 AFIN 47-00209 AR0021580 Filedate 20131001 Non-Pret Cities Pret-City IUS
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¹ The 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																															
C. Number of Regular Employees at this Facility: 39	D. [Reserved]																														

¹ ANPCAN uses only the production for the pond; it uses only #1 and #4 production. Other production is for the record only.

(4) FLOW MEASUREMENT

B. INDIVIDUAL PROCESS WASTESTREAMS DISCHARGED TO POTW

Operation	Average Flow ¹ Rate (gpd)	Number of Discharge Days	Batch Discharge Volume	Type of Discharge
Process:				
§467.15 Solution Heat Treatment ¹ (Aluminum Rolling)	NA #1	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 #5	NA	Not in service	Batch discharge to either POTW or waste oil tank
467.35 Cleaning or Etching Bath (Aluminum Extrusion)	NA #5	NA	Not in service	Batch discharge to either POTW or waste oil tank
§467.35 Press Heat Treatment (Aluminum Extrusion)	NA #3	NA	Not in service	Batch discharge from Aluminum Extrusion (C-350) Product Cooling Tank
§468.14(m) Pickling Bath (Copper Extrusion)	2.78 #6	144	Two 200-gallon tanks discharged March 31, 2013	Batch discharge to either POTW or waste oil tank
§468.14(k) Pickling Rinse (Copper Extrusion)	NA #6	NA	Not in service	Batch discharge to either POTW or waste oil tank
§468.14(e) Extrusion Heat Treatment (Copper Extrusion)	1.39 #6	144	One 200-gallon tank discharged March 31, 2013	Batch discharge from Copper Extrusion (C-285) Product Cooling Tank
§467.35 Core-Die Cleaner (Aluminum Extrusion)	20 #2	N/A	N/A	Intermittent
§467.35 Press Heat Treatment (Aluminum Extrusion)	2.08 #3	144	One 300-gallon tank, discharged March 31, 2013	Batch discharge from Aluminum Extrusion (C-300 & C-500) Cooling Water Tank
§468.14(d) Solution Heat Treatment ¹ (Copper Forming [Rolling])	NA #4	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)	144	N/A	Intermittent
Steam clean forklift wash area	5 (estimate)	144	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)	144	N/A	Continuous

Total = 6041.25

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

1. ANPCAN uses the total gallons (80,000 gallons) in the pond and circulating system. Flow rates are for record only.

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	110.3	NA	NA	NA	372.5	NA	15,793	74.5
C-300 Cooling Water Tank Measured Concentrations	<0.007	NA	NA	NA	0.024	NA	<5	<0.01
3 Die Cleaning Allowable Concentrations ¹	8 3.3	NA	NA	NA	26 11	NA	962 470	5 2.1
Die Cleaning Measured Concentrations	0.070	NA	NA	NA	0.45	NA	<5	<0.01
1 Pond Allowable Concentration	2.168	7.755	0.996	9.844	7.351	NA	204	0.524
Pond Measured Concentration	<0.007	2.4	<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	152.7	NA	NA	NA	515.8	NA	21,868	103.2
C-350 Cooling Water Tank Measured Concentrations	<0.007	NA	NA	NA	0.017	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)	19.34	112.19	14.51	142.17	67.70	NA	1,346	NA
C-285 Copper Extrusion Tank 6 Measured Concentration	<0.007	0.69	<0.04	<0.01	0.016	NA	<5	<0.01
C-285 Cooling Water Tank (Copper Extrusion) Allowable Concentrations	0.148	0.820	0.107	0.820	0.410	NA	9.841	NA
C-285 Cooling Water Tank Measured Concentrations ²	<0.007	0.69	<0.04	<0.01	0.016	NA	<5	<0.01

40CFR136 Preservation and Analytical Methods Use: ☒ Yes ☐ No

1. Tracking pond loading only since it represents over 95% of the mass loading to the POTW.
2. Algonquin is allowed to test for O&G in lieu of testing for TTO's.
3. Both Max & Ave limits are shown for die cleaning; die cleaning is the only operation with continuous flow.
4. Entered all data and initially entered Algonquin limits and later verified the limits.

¹ Listed as daily maximum and monthly average respectively

² Volume composite sample taken for all tanks

(6) CERTIFICATIONA. 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(I)]

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 OF METALS TECHNOLOGY
OFFICIAL TITLE


SIGNATURE

27 Sep 2013
DATE SIGNED

ATTACHMENT 1

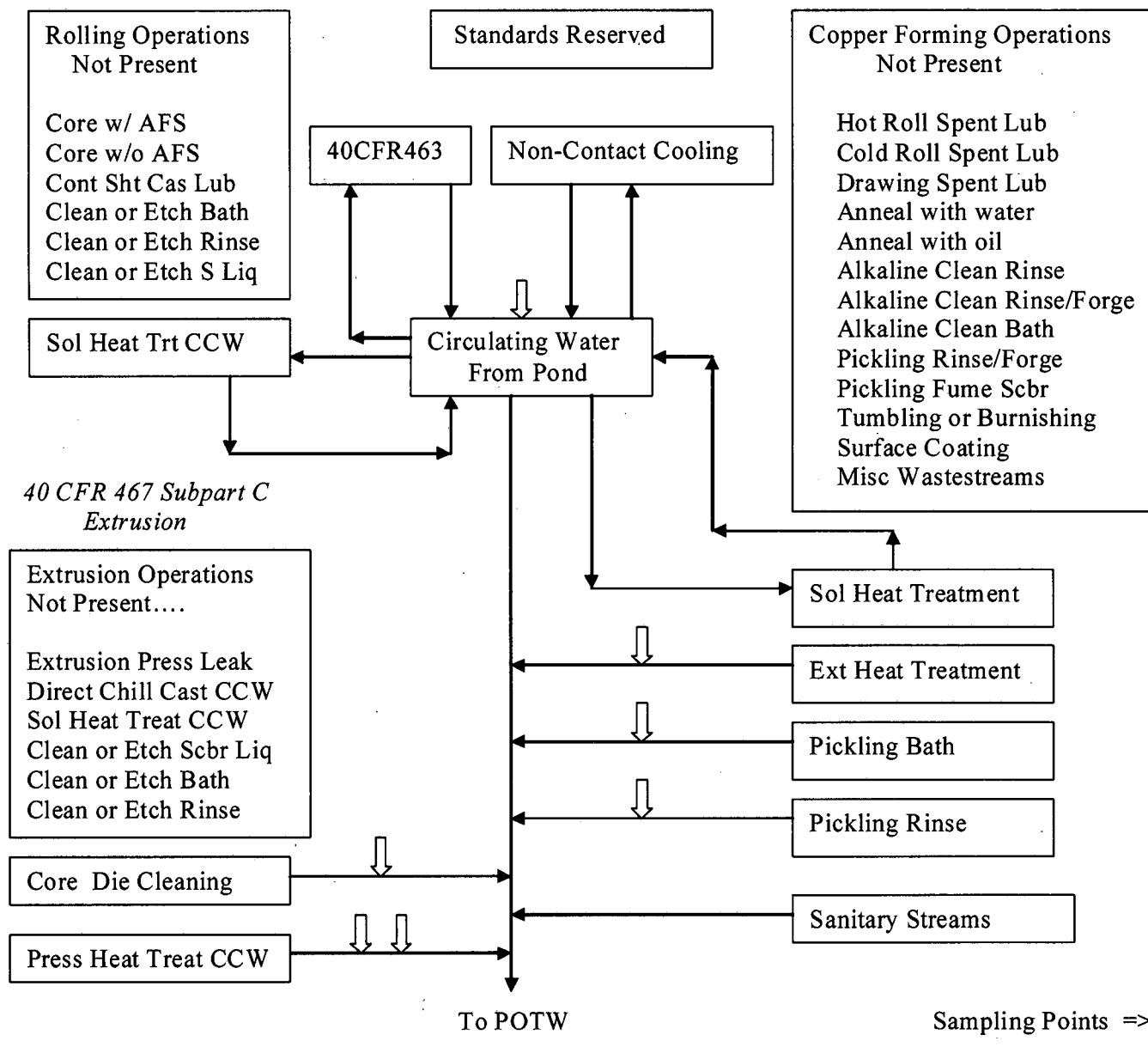
Flow Schematics

SEMI-ANNUAL REPORT

FACILITY NAME: Algonquin Industries

Algonquin Industries

Osceola, Arkansas March 2011

40 CFR 467 Subpart A Operations
Rolling with Neat Oils40CFR463 Subpart A
Contact Cooling40 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 and 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

27 Sep 2013

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

27 Sep 2013

Date

AGQ Diagram (March 21, 2011)

ATTACHMENT 2

Sampling and Analysis Results



August 27, 2013
Control No. 169979
Page 1 of 6

Algonquin Industries
ATTN: Mr. Matt Stowe
Post Office Box 643
Osceola, AR 72370

This report contains the analytical results and supporting information for samples submitted on August 23, 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: Algonquin Industries
ATTN: Mr. Matt Stowe
mstowe@reawire.com



August 27, 2013
Control No. 169979
Page 2 of 6

Algonquin Industries
Post Office Box 643
Osceola, AR 72370

SAMPLE INFORMATION

Project Description:

Five (5) water sample(s) received on August 23, 2013
POTW DMR

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
169979-1	C350 22AUG2013 0900	22-Aug-2013 0900	
169979-2	C300 22AUG2013 0900	22-Aug-2013 0900	
169979-3	Die 22AUG2013 0900	22-Aug-2013 0900	
169979-4	C285 22AUG2013 0900	22-Aug-2013 0900	
169979-5	Pond 22AUG2013 0900	22-Aug-2013 0900	

Qualifiers:

- D Result is from a secondary dilution factor
- X Spiking level is invalid due to the high concentration of analyte in the spiked sample

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).



August 27, 2013
Control No. 169979
Page 4 of 6

Algonquin Industries
Post Office Box 643
Osceola, AR 72370

ANALYTICAL RESULTS

AIC No. 169979-4 (Continued)

Sample Identification: C285 22AUG2013 0900

Analyte		Result	RL	Units	Qualifier
Copper		0.69	0.006	mg/l	
EPA 200.8	Prep: 23-Aug-2013 1337 by 271	Analyzed: 23-Aug-2013 1837 by 305		Batch: S35281	
Lead		< 0.04	0.04	mg/l	
EPA 200.8	Prep: 23-Aug-2013 1337 by 271	Analyzed: 23-Aug-2013 1837 by 305		Batch: S35281	
Nickel		< 0.01	0.01	mg/l	
EPA 200.8	Prep: 23-Aug-2013 1337 by 271	Analyzed: 23-Aug-2013 1837 by 305		Batch: S35281	
Zinc		0.016	0.002	mg/l	
EPA 200.8	Prep: 23-Aug-2013 1337 by 271	Analyzed: 23-Aug-2013 1837 by 305		Batch: S35281	
Oil and Grease		< 5	5	mg/l	
EPA 1664A	Prep: 23-Aug-2013 1335 by 295	Analyzed: 23-Aug-2013 1603 by 295		Batch: B8519	

AIC No. 169979-5

Sample Identification: Pond 22AUG2013 0900

Analyte		Result	RL	Units	Qualifier
Total Cyanide		< 0.01	0.01	mg/l	
SM 4500-CN C,E	Prep: 23-Aug-2013 1321 by 308	Analyzed: 26-Aug-2013 0921 by 308		Batch: W44663	
Copper		2.4	0.03	mg/l	D
EPA 200.7	Prep: 23-Aug-2013 1337 by 271	Analyzed: 26-Aug-2013 1451 by 305		Batch: S35281	Dil: 5
Chromium		< 0.007	0.007	mg/l	
EPA 200.8	Prep: 23-Aug-2013 1337 by 271	Analyzed: 23-Aug-2013 1843 by 305		Batch: S35281	
Lead		< 0.04	0.04	mg/l	
EPA 200.8	Prep: 23-Aug-2013 1337 by 271	Analyzed: 23-Aug-2013 1843 by 305		Batch: S35281	
Nickel		< 0.01	0.01	mg/l	
EPA 200.8	Prep: 23-Aug-2013 1337 by 271	Analyzed: 23-Aug-2013 1843 by 305		Batch: S35281	
Zinc		0.016	0.002	mg/l	
EPA 200.8	Prep: 23-Aug-2013 1337 by 271	Analyzed: 23-Aug-2013 1843 by 305		Batch: S35281	
Oil and Grease		< 5	5	mg/l	
EPA 1664A	Prep: 23-Aug-2013 1335 by 295	Analyzed: 23-Aug-2013 1603 by 295		Batch: B8519	



Algonquin Industries
Post Office Box 643
Osceola, AR 72370

ANALYTICAL RESULTS

AIC No. 169979-1

Sample Identification: C350 22AUG2013 0900

Analyte		Result	RL	Units	Qualifier
Total Cyanide		< 0.01	0.01	mg/l	
SM 4500-CN C,E	Prep: 23-Aug-2013 1321 by 308	Analyzed: 26-Aug-2013 0910 by 308		Batch: W44663	
Chromium		< 0.007	0.007	mg/l	
EPA 200.8	Prep: 23-Aug-2013 1337 by 271	Analyzed: 23-Aug-2013 1800 by 305		Batch: S35281	
Zinc		0.017	0.002	mg/l	
EPA 200.8	Prep: 23-Aug-2013 1337 by 271	Analyzed: 23-Aug-2013 1800 by 305		Batch: S35281	
Oil and Grease		< 5	5	mg/l	
EPA 1664A	Prep: 23-Aug-2013 1335 by 295	Analyzed: 23-Aug-2013 1603 by 295		Batch: B8519	

AIC No. 169979-2

Sample Identification: C300 22AUG2013 0900

Analyte		Result	RL	Units	Qualifier
Total Cyanide		< 0.01	0.01	mg/l	
SM 4500-CN C,E	Prep: 23-Aug-2013 1321 by 308	Analyzed: 26-Aug-2013 0916 by 308		Batch: W44663	
Chromium		< 0.007	0.007	mg/l	
EPA 200.8	Prep: 23-Aug-2013 1337 by 271	Analyzed: 23-Aug-2013 1805 by 305		Batch: S35281	
Zinc		0.024	0.002	mg/l	
EPA 200.8	Prep: 23-Aug-2013 1337 by 271	Analyzed: 23-Aug-2013 1805 by 305		Batch: S35281	
Oil and Grease		< 5	5	mg/l	
EPA 1664A	Prep: 23-Aug-2013 1335 by 295	Analyzed: 23-Aug-2013 1603 by 295		Batch: B8519	

AIC No. 169979-3

Sample Identification: Die 22AUG2013 0900

Analyte		Result	RL	Units	Qualifier
Total Cyanide		< 0.01	0.01	mg/l	
SM 4500-CN C,E	Prep: 23-Aug-2013 1321 by 308	Analyzed: 26-Aug-2013 0918 by 308		Batch: W44663	
Chromium		0.070	0.007	mg/l	
EPA 200.7	Prep: 26-Aug-2013 0925 by 271	Analyzed: 26-Aug-2013 1916 by 305		Batch: S35284	
Zinc		0.45	0.002	mg/l	
EPA 200.7	Prep: 26-Aug-2013 0925 by 271	Analyzed: 27-Aug-2013 1445 by 305		Batch: S35284	
Oil and Grease		< 5	5	mg/l	
EPA 1664A	Prep: 23-Aug-2013 1335 by 295	Analyzed: 23-Aug-2013 1603 by 295		Batch: B8519	

AIC No. 169979-4

Sample Identification: C285 22AUG2013 0900

Analyte		Result	RL	Units	Qualifier
Total Cyanide		< 0.01	0.01	mg/l	
SM 4500-CN C,E	Prep: 23-Aug-2013 1321 by 308	Analyzed: 26-Aug-2013 0919 by 308		Batch: W44663	
Chromium		< 0.007	0.007	mg/l	
EPA 200.8	Prep: 23-Aug-2013 1337 by 271	Analyzed: 23-Aug-2013 1837 by 305		Batch: S35281	



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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	0.1 mg/l	95.1	85.0-115			W44663	23Aug13 1321 by 308	26Aug13 0938 by 308		
Chromium	0.5 mg/l	104	85.0-115			S35284	26Aug13 0925 by 271	26Aug13 1823 by 305		
Zinc	0.5 mg/l	102	85.0-115			S35284	26Aug13 0925 by 271	27Aug13 1408 by 305		
Chromium	0.05 mg/l	104	85.0-115			S35281	23Aug13 1337 by 271	23Aug13 1738 by 305		
Copper	0.05 mg/l	95.8	85.0-115			S35281	23Aug13 1337 by 271	23Aug13 1738 by 305		
Lead	0.05 mg/l	103	85.0-115			S35281	23Aug13 1337 by 271	23Aug13 1738 by 305		
Lead	5 mg/l	110	85.0-115			S35284	26Aug13 0925 by 271	27Aug13 1408 by 305		
Nickel	0.05 mg/l	97.9	85.0-115			S35281	23Aug13 1337 by 305	23Aug13 1738 by 305		
Zinc	0.05 mg/l	95.9	85.0-115			S35281	23Aug13 1337 by 271	23Aug13 1738 by 305		
Oil and Grease	40 mg/l	98.5	78.0-114			B8519	23Aug13 1335 by 295	23Aug13 1603 by 295		
	40 mg/l	102	78.0-114	3.98	20.0	B8519	23Aug13 1335 by 295	23Aug13 1603 by 295		

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	169979-1	0.1 mg/l	89.9	75.0-125	W44663	23Aug13 1321 by 308	26Aug13 0912 by 308		
	169979-1	0.1 mg/l	87.9	75.0-125	W44663	23Aug13 1321 by 308	26Aug13 0914 by 308		
	Relative Percent Difference:		2.25	20.0	W44663				
Chromium	169974-1	0.5 mg/l	100	75.0-125	S35284	26Aug13 0925 by 271	26Aug13 1827 by 305		
	169974-1	0.5 mg/l	100	75.0-125	S35284	26Aug13 0925 by 271	26Aug13 1831 by 305		
	Relative Percent Difference:		0.0665	20.0	S35284				
Zinc	169974-1	0.5 mg/l	99.7	75.0-125	S35284	26Aug13 0925 by 271	27Aug13 1412 by 305		
	169974-1	0.5 mg/l	99.7	75.0-125	S35284	26Aug13 0925 by 271	27Aug13 1415 by 305		
	Relative Percent Difference:		0.00934	20.0	S35284				
Chromium	169983-1	0.05 mg/l	95.8	75.0-125	S35281	23Aug13 1337 by 271	23Aug13 1744 by 305		
	169983-1	0.05 mg/l	95.6	75.0-125	S35281	23Aug13 1337 by 271	23Aug13 1749 by 305		
	Relative Percent Difference:		0.212	20.0	S35281				
Copper	169983-1	0.05 mg/l	-	75.0-125	S35281	23Aug13 1337 by 271	23Aug13 1744 by 305		X
	169983-1	0.05 mg/l	-	75.0-125	S35281	23Aug13 1337 by 271	23Aug13 1749 by 305		X
	Relative Percent Difference:		0.527	20.0	S35281				
Lead	169983-1	0.05 mg/l	93.2	75.0-125	S35281	23Aug13 1337 by 271	23Aug13 1744 by 305		
	169983-1	0.05 mg/l	93.1	75.0-125	S35281	23Aug13 1337 by 271	23Aug13 1749 by 305		
	Relative Percent Difference:		0.105	20.0	S35281				
Lead	169974-1	5 mg/l	106	75.0-125	S35284	26Aug13 0925 by 271	27Aug13 1412 by 305		
	169974-1	5 mg/l	105	75.0-125	S35284	26Aug13 0925 by 271	27Aug13 1415 by 305		
	Relative Percent Difference:		0.117	20.0	S35284				
Nickel	169983-1	0.05 mg/l	82.7	75.0-125	S35281	23Aug13 1337 by 305	23Aug13 1744 by 305		
	169983-1	0.05 mg/l	82.6	75.0-125	S35281	23Aug13 1337 by 305	23Aug13 1749 by 305		
	Relative Percent Difference:		0.200	20.0	S35281				
Zinc	169983-1	0.05 mg/l	77.0	75.0-125	S35281	23Aug13 1337 by 271	23Aug13 1744 by 305		
	169983-1	0.05 mg/l	75.4	75.0-125	S35281	23Aug13 1337 by 271	23Aug13 1749 by 305		
	Relative Percent Difference:		1.03	20.0	S35281				



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LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Cyanide	< 0.01 mg/l	0.01	0.01	W44663-1	23Aug13 1321 by 308	26Aug13 0906 by 308	
Chromium	< 0.007 mg/l	0.007	0.007	S35284-1	26Aug13 0925 by 271	26Aug13 1819 by 305	
Zinc	< 0.002 mg/l	0.002	0.002	S35284-1	26Aug13 0925 by 271	27Aug13 1405 by 305	
Chromium	< 0.007 mg/l	0.007	0.007	S35281-1	23Aug13 1337 by 271	23Aug13 1733 by 305	
Copper	< 0.006 mg/l	0.006	0.006	S35281-1	23Aug13 1337 by 271	23Aug13 1733 by 305	
Lead	< 0.04 mg/l	0.04	0.04	S35281-1	23Aug13 1337 by 271	23Aug13 1733 by 305	
Nickel	< 0.01 mg/l	0.01	0.01	S35281-1	23Aug13 1337 by 305	23Aug13 1733 by 305	
Zinc	< 0.002 mg/l	0.002	0.002	S35281-1	23Aug13 1337 by 271	23Aug13 1733 by 305	
Oil and Grease	< 5 mg/l	5	5	B8519-1	23Aug13 1335 by 295	23Aug13 1603 by 295	

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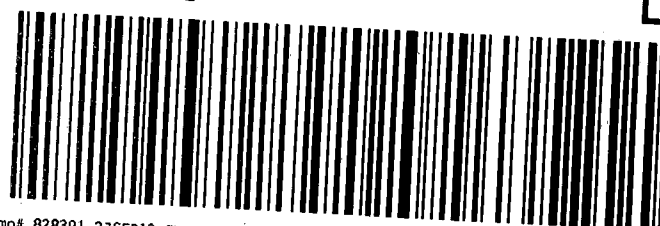
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