Finch Environmental, PLC

9 Heritage Park Circle North Little Rock, Arkansas 72116-8528 Municipal and Industrial NPDES Storm Water Pollution Prevention Plans Control Plans Environmental Permitting Reporting Hazardous Waste Pretreatment

12/28/2012

Mr. Allen Gilliam Pretreatment Coordinator ADEQ 5301 Northshore Drive North Little Rock, AR 72118

Complete / compliant No further action derened Necessary

AGOIL

Re: Southern Aluminum Company, Inc., Pretreatment Tracking Number ARP001059

Dear Mr. Gilliam,

Please accept this attached "Periodic Report" form as requested. Also included with this submittal is the laboratory analytical results and chain of custody form.

Please accept this submittal and contact me with questions.

Thank you.

Sincerely,

Bar. F.S

Bernie K. Finch Finch Environmental, PLC

NION Leon Ryan

Southern Aluminum Company, Inc.

Attachment

Cc Russell Thomas, City of Magnolia

Telephone/Fax: 501.771.6940 E-mail: bkfinch@sbcglobal.net www.finchenvironmental.com

SEMI-ANNUAL REPORT FOR INDUSTRIAL USERS REGULATED BY 40CFR433

(1) IDENTIFYING INFORMATION	
A. LEGAL NAME & MAILING ADDRESS Southern Aluminum P.O. Box 884 Magnolia, AR 71754	B. FACILITY & LOCATION ADDRESS Southern Aluminum 5 Highway 82 West Magnolia, AR 71753
C. FACILITY CONTACT: Colleen Tuggle TELEPHO	DNE NUMBER: 870.234.8660 e-mail:
(2) REPORTING PERIOD-FISCAL YEAR 2010 (Both	Semi-Annual Reports must cover Fiscal Year)
A. MONTHS WHICH REPORTS ARE DUE	B. PERIOD COVERED BY THIS REPORT
*This is a Periodic Batch Report	FROM: December 12, 2012 TO: December 12, 2012
(3) DESCRIPTION OF OPERATION	
A. REGULATED PROCESSES CORE PROCESS(ES) CHECK EACH APPLICABLE BLOCK G Electroplating G Electroless Plating G Anodizing O Coating G Chemical Etching and Milling G Printed Circuit Board Manufacture	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.
ANCILLARY PROCESS(ES)* LIST BELOW EACH PROCESS USED IN THE FACILITY Coating	
SEE 40CFR433.10(a) FOR 40 DIFFERENT OPERATIONS	
C. Number of Regular Employees at this Facility 135	D. [Reserved]

INDIVIDUAL & TOTAL PROCESS FLOWS DISCHARGED TO POTW IN GALLONS PER DAY									
Process	Average	Maximum	Type of Discharge						
Regulated (Core & Ancillary)	See Note Below	See Note Below	1832						
Regulated (Cyanide)	0	0	N/A						
'403.6(e) Unregulated [*]	0	0	N/A						
' 403.6(e) Dilute	0	0	N/A						
Cooling Water**	0	0	N/A						
Sanitary**	0	0	N/A						
Total Flow to POTW	See Note Below	See Note Below	1832						

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

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

(5) MEASUREMENT OF POLLUTANTS

D. COMMENTS ON THE ATMENT SUCTEM

C. THE INDUSTRIAL USER MUST PERFORM SAMPLING AND ANALYSIS OF THE EFFLUENT FROM ALL REGULATED PROCESSES--CORE & ANCILLARY--(AFTER TREATMENT, IF APPLICABLE). ATTACH THE LAB ANALYSIS WHICH SHOWS A MAXIMUM; TABULATE ALL THE ANALYTICAL DATA COLLECTED DURING THE REPORT PERIOD IN THE SPACE PROVIDED BELOW. ZERO CONCENTRATIONS ARE NOT ACCEPTABLE; LIST THE DETECTION LIMIT IF CONCENTRATION WAS BELOW DETECTION LIMIT.

Pollutant(mg/l)	Cd	Cr	Cu	Pb	Ni	Ag	Zn	CN	тто⁺
Max for 1 day	0.11	2.77	3.38	0.69	3.98	0.43	2.61	1.20	2.13
Monthly Ave	0.07	1.71	2.07	0.43	2.38	0.24	1.48	0.65	
Max Measured	0.0001	0.001	0.037	0.004	0.007	0.0005	0.184	0.010	TOMP (N/A)
Ave Measured	0.0001	0.001	0.037	0.004	0.007	0.0005	0.184	0.010	TOMP (N/A)

Sample Location <u>Sample taken at confluence of all regulated processes (Dip Tank and Rinse Tank) immediately</u> preceding discharge to municipal collection system. Wash tank was not discharged on 12-12-2012.

Sample Type (Grab or Composite) Grab

Number of Samples and Frequency Collected <u>One (1) collected 12-12-2012;</u>

40 CFR 136 Preservation and Analytical Methods Use: x Yes No

Indicate Combined Wastestream Factor if Dilution Streams Exist w/Regulated Streams <u>N/A</u>

(6) CERTIFICATION

A. Required under 40 CFR 403.12(g)

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

Leon M. Ryan Vice President/General Manager (Typed Name) an 1 1 11 (Corporate Officer or authorized representative)

B. CHECK ONE: '433.11(e) TOXIC ORGANIC ANALYSIS ATTACHED ✓O '433.12(a) TTO CERTIFICATION

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last semi-annual compliance report. I further certify that this facility is implementing the toxic organic management plan submitted to Arkansas Department of Environmental Quality.

Leon M. Ryan Vice President/General Manager (Typer Name)

(Corporate Officer or authorized representative)

Date of Signature 12-26-12

Intentionally left blank

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

* 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 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: Initial submittal of a Toxic Organic Management Plan (TOMP).

(8) GENERAL COMMENTS

Flow Calculations:

Southern Aluminum batch discharged on December 12, 2012.

1000 gallons from Dip Tank (core process)

832 gallons from Rinse Tank (ancillary process)

= 1,832 gallons to the Magnolia municipal sewer system.

pH: 7.7 s.u.

(9) SIGNATORY REQUIREMENTS [40CFR403.12(1)]

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

Leon M. Ryan NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE

ßľ SIGNATURE

Vice President/General Manager

OFFICIAL TITLE

- 12

Environmental Services Company, Inc.

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341 Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1212010401 Customer Name : SOUTHERN ALUMINUM CO., INC. Customer Number : 2754 Report Date : 12/19/12	Sample Date : 12/12/12 Sample Time : 1230 Sample Type : GRAB WATER Sample From :	Deliver Work Or	Collected By: COLLEEN TUGGLE Delivery By : UPS Work Order : Purchase Order :				
Analysis <u>Date Time By Parameter</u> 12/14 1230 NTR Cyanide Total (as CN) 12/12 1230 CT pH 12/17 1106 RAH Chromium 12/17 1106 RAH Nickel 12/17 1106 RAH Copper 12/17 1106 RAH Zinc 12/17 1106 RAH Silver 12/17 1106 RAH Lead * OA data shown is from a different sample of the samp	Result Notes Ouantity < 0.0100 mg/L 7.7 S.U. 7.7 S.U. < 1.00 ug/L 6.60 ug/L 37.30 ug/L 184.00 ug/L 0.50 ug/L 0.10 ug/L < 0.10 ug/L 3.50 ug/L 0.10 ug/L	Method SM 18th 4500-CN E SM 18 4500 H+B EPA 200.8 EPA 200.8 EPA 200.8 EPA 200.8 EPA 200.8 EPA 200.8 EPA 200.8	Quality 7 Precision <u>% RPD</u> 1.43 4.89 4.40 0.71 11.87 0.00 1.62 2.64	Assurance Accuracy <u>% Recovery</u> 98.3 * 94.3 * 89.9 * 90.0 * 83.5 * 70.0 * 118.4 *			

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature Environmental Services Co., Inc.

Environmental Services Company, Inc. Corporate Office 13715 West Markham P.O. Box 55146 Little Rock, AR 72211 Little Rock, AR 72215 website: www.esclabs.com

Phone: 501-221-2565

Fax: 501-221-1341



CHAIN OF CUSTODY

Environmental Services Company, Inc. Northwest Branch 1107 Century Springdale, AR 72764

Phone 479-750-1170 Fax: 479-750-1172

Client Information				Project Information					Requested Parameters							
Company Name	pany Name: Southern Aluminum Co., Inc. F			Permit/Project #:												
Address:			Purchase Order #:													
			Work Order #													
Telephone:	800-221-0408			Sampler Name(s): (bllppn		ppn-	en Tugale			(5)						
Fax:	870-234-4665					Tof.	イズ	arna	5		Comments)					
Contact:			and Signature(s):		Juople				ы Со О					ļ		
ESC Client Num				, in the second s		ANA	AM Farian			6						
Sam	ple Identification		Sample	Collection		000	Sample C			Cyanide(9)	Metais (See					
Identificatio	on ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva	tive #	$\left \begin{array}{c} \delta \\ \delta \end{array} \right $	Met					
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AM fa	inen	121212	12:45	LUMON	tall Ti	va tere	0	12-13-12	1030	Reg				pecial		
References and By (Storatu	Printed Name)	Date 12-13-12-		Repeived for Lab	By: (Signature an	Change	Hall_	Date 1)-13-19	I OD	Vver	Yes	pies pro	peny pro	eserved: No		
All samples cooled to $\leq 6 \deg C$ with ice.				Flow D		Field Test	A second s	Analyst	Res	suit	Resul	a l	Unit	s		
Comments: Cd(48.PS), Cr(24.PS), Cu(29.PS), Pb(82.PS), Ni(28.PS), Ag(47. Zh(30.PS)			.PS),	Analyst: Time:		pH: 7.7	12:39	Citig	4						-	
					Reading:					T						
Per 40 CFR 136.3 Table II Note 19, samples preserved in labora					Units;					-	- D-					
- Per 40 CFR 1	36.3 Lable II Note 19, samp	es preservi	ed in labora	atory.	Chlorinated?	YN	Fecal Start		I	10	s Do	cumer	u is Pi	añe 💳	_of	_

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Finch Environmental, PLC

9 Heritage Park Circle North Little Rock, Arkansas 72116-8528 Municipal and Industrial NPDES Storm Water Pollution Prevention Plans Control Plans Environmental Permitting Reporting Hazardous Waste Pretreatment

12/28/2012

Thenje of process Notification

Mr. Allen Gilliam Pretreatment Coordinator ADEQ 5301 Northshore Drive North Little Rock, AR 72118

Re: Southern Aluminum Company, Inc., Pretreatment Tracking Number ARP001059

Dear Mr. Gilliam,

This office is in receipt of your email, dated December 14, 2012 to Colleen Tuggle of Southern Aluminum Company (please see referenced Pretreatment Tracking Number) regarding compliance with pH limitations and requesting a description of the related change in process at the facility under 40 CFR § 403.12(j).

As you know Southern Aluminum periodically batch discharges from regulated core and ancillary processes to the City of Magnolia sanitary sewer collection system and are subject to federal metal finishing standards (40 CFR § 433.17) and municipal wastewater treatment regulations (limitations) regarding pH. To attain compliance with the limitation for pH imposed by the City of Magnolia, Southern Aluminum introduces, prior to batch discharges, an alkaline liquid mixture (Trade Name: WT 84, a product of the A Brite Company, please see attached MSDS).

The two (2) batch discharge scenarios employed at the plant require the following amounts of "WT 84":

1. Wash Tank (core process, capacity: 2050 gallons) + Rinse Tank (ancillary process, capacity: 832 gallons)

1.5 gailons

2. Dip Tank (core process, capacity: 1000 gallons) + Rinse Tank (ancillary process, capacity: 832 gallons)

2.0 gallons

We have attained compliance with the limitation for pH and 40 CFR § 433.17 metals and cyanide during the last two (2) batch discharges, one on November 19, 2012 and the last one on December 12, 2012.

Telephone/Fax: 501.771.6940 E-mail: bkfinch@sbcglobal.net www.finchenvironmental

Letter to Allen Gilliam, ADEQ Southern Aluminum Company Page 2 of 2 12/28/2012

Please accept this submittal regarding the change in process as requested. Also included with this submittal is the Material Safety Data Sheet (MSDS) for the alkaline liquid ("WT 84") additive.

Please contact me with questions.

Thank you.

Sincerely,

BSK. Fint

Bernie K. Finch Finch Environmental, PLC

Leon Bon

Leon M. Ryan Southern Aluminum Company, Inc.

Attachment

Cc Russell Thomas, City of Magnolia

MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA'S 29 CFR 1910, 1200 AND STATE HAZARD COMMUNICATION STANDARD

A BRITE COMPANY **3217 WOOD DRIVE** GARLAND, TEXAS 75041 214-291-0400

24 HOUR EMERGENCY PHONE NUMBER 1-800-424-9300 (CHEMTREC)

SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: WT 84 GENERAL OR GENERIC ID: Alkaline liquid mixture DATE PREPARED: 5/19/04 LATEST REVISION DATE: 5/19/04 NFPA/HMIS HAZARD CODES (minimal = 0; slight = 1; moderate = 2; serious = 3; severe = 4) HEALTH: 3/3 FIRE: 0/0 REACTIVITY: 1/1 SPECIAL: H

SECTION 2: HAZARDOUS INGREDIENTS **IDENTITY INFORMATION**

HAZARDOUS COMPONENTS	CAS#	OSHA	ACGIH	<u>IDLH</u>	% /WT
Sodium Hydroxide	310-73-2	PEL 2mg/m ³	<u>TLV</u> 2mg/m ³	LEVEL 250mg/m ³	<55

*= Reportable under SARA Title III

SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: >212°F SPECIFIC GRAVITY: 1.50 VAPOR PRESSURE: N/A VAPOR DENSITY: N/A SOLUBILITY IN WATER: Complete pH (1% Solution): 12

EVAPORATION RATE: N/A

APPEARANCE AND COLOR: Clear liquid with no distinguishable odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLAMMABLE LIMITS: N/A FLASH POINT: not flammable EXTINGUISHING MEDIA: Water fog, carbon dioxide, alcohol foam, dry chemical and Halon.

SPECIAL FIRE FIGHTING PROCEDURES: Pressure demand, self contained respiratory protection and protective clothing should be worn by firefighters in areas where products containing caustic soda or caustic soda mixtures are stored.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Non combustible material, liquid form in contact with water may generate sufficient heat to ignite combustible or flammable materials. Contact with white metals such as zinc, aluminum, tin or alloys of these metals can generate explosive hydrogen gas

SECTION 5: REACTIVITY DATA

HAZARDOUS POLYMERIZATION: Will not occur STABILITY: Stable INCOMPATIBILITY: Acids, metals such as zinc, aluminum, tin or alloys of these metals. Flammable liquids, organic halogens, nitromethane or nitro compounds.

CONDITIONS TO AVOID: Splashing or dropping of water or strong acids on product. Spilling of liquid product on white metals.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and or carbon monoxide or hydrogen gas may evolve.

SECTION 6: HEALTH HAZARD DATA

ROUTES OF ENTRY /SIGNS AND SYMPTOMS OF EXPOSURE: ACUTE: Corrosive to eyes and skin, concentrated solutions may des tissue on contact. Can cause blindness.

INGESTION: Harmful if swallowed. Can cause severe burns and comp perforation of mucous membranes to the mouth, throat, esophagus . stomach if swallowed.

INHALATION: Mist or dust at high levels may cause irritation to the nc throat and lungs. May cause damage to the upper respiratory tract. CHRONIC EFFECTS: None known

CARCINOGENS: None under OSHA, IARC or NTP

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known EMERGENCY AND FIRST AID PROCEDURES:

EYES: Immediately flush with plenty of water for 15 minutes. Ser physician.

SKIN: Wash with soap and water. Remove contaminated clothing Se physician if irritation occurs.

INHALATION: Remove to fresh air. If breathing has stopped start artifi respiration. See a physician.

INGESTION: Call a physician immediately, DO NOT INDUCE VOMITI DILUTE BY DRINKING WATER (MILK IF AVAILABLE) NEVER GI LIQUIDS TO AN UNCONSCIOUS PERSON.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURES:

SMALL SPILLS: Flush to treatment system with large amounts of water. LARGE SPILLS: Sweep into suitable containers. Keep out of fish bear waters.

WASTE DISPOSAL METHOD: Dump to waste water treatment syste observe local, state and federal regulations. Product is hazardous wa: EPA Code (c,R), EPA Hazardous Waste Numbers D002, D003, due to pl

SECTION 8: TRANSPORTATION AND LABELING

REGULATORY INFORMATION: DOT HAZARD CLASS: 8 SHIPPING NAME: Sodium hydroxide solution ID NUMBER: UN 1824 PACKING GROUP: II LABELS: 8 TSCA: All components included in the inventory.

SECTION 9: HANDLING AND STORAGE

HANDLING AND STORING: Keep container closed when not in use. Reep out of reach of children. Store in pre OTHER PRECAUTIONS: chemical storage area.

If water pollution occurs, notify the proper authorities.

SECTION 10: CONTROL MEASURES

RESPIRATORY PROTECTION: Use NIOSH approved respira equipment for dust and mist.

VENTILATION: Local exhaust to maintain air contamination below TLV lit GLOVES: Rubber gloves, neoprene, or synthetic rubber required.

EYE PROTECTION: Safety glasses or goggles required.

OTHER PROTECTIVE EQUIPMENT: As needed to prevent prolonger repeated skin contact. Eye wash fountain and safety shower in work area WORK IHYGIENIC PRACTICES: Launder contaminated clothing be reuse

THE INFORMATION WAS COMPILED FROM CURRENT, RELIABLE SOUR AND IS BELIEVED TO BE CORRECT. AS DATA, AND OR REGULATIC CHANGE, AND CONDITION OF USE AND HANDLING ARE BEYOND (CONTROL, NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMAT SELLER ASSUMES NO RESPONSIBILITY FOR INJURY TO BUYER OR THIRD PERSONS OR FOR ANY DAMAGE TO ANY PROPERTY AND BU ASSUMES ALL SUCH RISKS.