

## Wilson, Tabatha

---

**From:** Gilliam, Allen  
**Sent:** Monday, November 25, 2013 3:36 PM  
**To:** 'bniswonger@indmetalfinishings.com' (bniswonger@indmetalfinishings.com)  
**Cc:** Fuller, Kim; Wilson, Tabatha; wrcww@att.net  
**Subject:** AR0046566\_Industrial Metal Finishing Nos 1 and 2 ARP001023 and ARP001024 non compliant Semi Annual Pretreatment report and ADEQ reply\_20131125  
**Attachments:** CIU\_semi annual report\_FORM\_433 Facility 1 october 2013.doc; CIU\_semi annual report\_FORM\_433 Facility2 April 2013.doc; October 2013 American interplex Analytical.pdf

Brian,

Your "Facility 1" semi-annual report was received, reviewed and deemed compliant with the Federal Pretreatment Reporting requirements in 40 CFR 303.12(e) and more specifically with the Metal Finishing standards in 40 CFR 433.

As noted on the above attached file, "Facility 2's" semi-annual report was the one you sent this office for the April 2013 semi-annual report (signed by yourself on 4/29/13). According to the contract lab's analytical results (dated 11/10/13) its wastewater discharged to the City was compliant with the Metal Finishing standards in 40 CFR 433.

Please resubmit a signed and dated correct semi-annual report for "Facility 2" located on Beacon Road with the appropriate analytical results denoted on page 2.

Thank you for your attention to this matter.

Sincerely,

Allen Gilliam  
ADEQ State Pretreatment Coordinator  
501.682.0625

ec: John Kopp, Wastewater Manager, Walnut Ridge City Wastewater Department

E/NPDES/NPDES/Pretreatment/Reports

**From:** [bniswonger@indmetalfinishings.com](mailto:bniswonger@indmetalfinishings.com) [<mailto:bniswonger@indmetalfinishings.com>]  
**Sent:** Thursday, October 17, 2013 12:53 PM  
**To:** Gilliam, Allen  
**Cc:** Lester Herring; MAYOR Walnut Ridge  
**Subject:** Semi-annual report

Attached you will find our reports for both facilities. If you need anything else please let me know. Thank you and have a great day!

*Brian Niswonger*

*President*

*Industrial Metal Finishing, Inc.*

*Tel#(870)886-7531*

Cell#(870)378-1977

Fax#(870)886-9546

email [bniswonger@indmetalfinishings.com](mailto:bniswonger@indmetalfinishings.com)

# SEMI-ANNUAL REPORT FOR INDUSTRIAL USERS REGULATED BY 40CFR433

Use of this form is not an EPA/ADEQ requirement.

Attn: Water Div/NPDES Pretreatment

## (1) IDENTIFYING INFORMATION

**A. LEGAL NAME & MAILING ADDRESS**

Industrial Metal Finishing, Inc. #1  
 P.O. Box 326  
 Pocahontas, AR 72455

**B. FACILITY & LOCATION ADDRESS**

Industrial Metal Finishing, Inc.  
 329 Frazier Street  
 Walnut Ridge, AR 72476

**C. FACILITY CONTACT: Brian Niswonger    TELEPHONE NUMBER: (870)886-7531    e-mail:bniswonger@indmetalfinishings.com**

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

**A. MONTHS WHICH REPORTS ARE DUE**

**April    &    October**

**B. PERIOD COVERED BY THIS REPORT**

**FROM: April 2013    TO: October 2013**

## (3) DESCRIPTION OF OPERATION

**A. REGULATED PROCESSES**

**CORE PROCESS(ES)**

CHECK EACH APPLICABLE BLOCK

- Electroplating**
- Electroless Plating**
  - Anodizing**
  - Coating**
  - Chemical Etching and Milling**
  - Printed Circuit Board Manufacture**

**ANCILLARY PROCESS(ES)\***

LIST BELOW EACH PROCESS USED IN THE FACILITY

- Black Oxide(ferrous metals)**
  - Zinc Phosphate(ferrous metals)**
  - Chloride Zinc(ferrous metals)**
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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

**B. CHANGES:**

SUMMARIZE ANY CHANGES IN THE REGULATED PROCESSES SINCE THE LAST REPORT. ATTACH AN ADDITIONAL SHEET IF THE SPACE BELOW IS INADEQUATE. PROVIDE A NEW SCHEMATIC IF APPROPRIATE.

**C. Number of Regular Employees at this Facility**

6

**D. [Reserved]**

**(4) FLOW MEASUREMENT**

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

Process	Average	Maximum	Type of Discharge
Regulated (Core & Regulated (Cyanide)	7083	8283	continuous
§403.6(e) Unregulated*	0	0	
§403.6(e) Dilute	0	0	
Cooling Water	0	0	
Sanitary	150	225	batch
<b>Total Flow to POTW</b>	<b>7233</b>	<b>8508</b>	*****

\*"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 \_\_\_\_\_
- None

**B. COMMENTS ON TREATMENT SYSTEM**

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

Pollutant(mg/l)	Cd	Cr	Cu	Pb	Ni	Ag	Zn	CN	TTO*
Max for 1 day	0.11	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	<0.004	<0.007	0.028	<0.04	<0.01	<0.007	0.47	<0.01	n/a
Ave Measured									

Sample Location Effluent Sampling Point \*(schematic drawing)\*

Sample Type (Grab or Composite) Composite

Number of Samples and Frequency Collected 4; 2 hrs.

40CFR136 Preservation and Analytical Methods Use:  Yes  No

**(6) CERTIFICATION**

A. [Reserved]

[Reserved]

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

**Brian Niswonger**  
(Typed Name)



Brian Niswonger 10/17/13  
(Corporate Officer or authorized representative)

**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 \_\_\_\_\_, 200\_\_.

\_\_\_\_\_  
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(l)]**

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

**Brian Niswonger**



Brian Niswonger

NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE

SIGNATURE

**President**  
OFFICIAL TITLE

DATE SIGNED 10/17/13

# SEMI-ANNUAL REPORT FOR INDUSTRIAL USERS REGULATED BY 40CFR433

Use of this form is not an EPA/ADEQ requirement.

Attn: Water Div/NPDES Pretreatment

## (1) IDENTIFYING INFORMATION

**A. LEGAL NAME & MAILING ADDRESS**

Industrial Metal Finishing, Inc. #2  
 P.O. Box 326  
 Pocahontas, AR 72455

**B. FACILITY & LOCATION ADDRESS**

Industrial Metal Finishing, Inc.  
 105 Beacon Road  
 Walnut Ridge, AR 72476

**C. FACILITY CONTACT: Brian Niswonger    TELEPHONE NUMBER: (870)886-7531    e-mail:bniswonger@indmetalfinishings.com**

## (2) REPORTING PERIOD--FISCAL YEAR From ??? to ????

(Both Semi-Annual Reports must cover Fiscal Year)

**A. MONTHS WHICH REPORTS ARE DUE**

**April    &    October**

**B. PERIOD COVERED BY THIS REPORT**

**FROM: October 2012    TO: April 2013**

## (3) DESCRIPTION OF OPERATION

**A. REGULATED PROCESSES**

**CORE PROCESS(ES)**

CHECK EACH APPLICABLE BLOCK

- Electroplating**
- Electroless Plating**
- Anodizing**
- Coating**
- Chemical Etching and Milling**
- Printed Circuit Board Manufacture**

**ANCILLARY PROCESS(ES)\***

LIST BELOW EACH PROCESS USED IN THE FACILITY

**Alkaline Zinc(ferrous metals)**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

**B. CHANGES:**

SUMMARIZE ANY CHANGES IN THE REGULATED PROCESSES SINCE THE LAST REPORT. ATTACH AN ADDITIONAL SHEET IF THE SPACE BELOW IS INADEQUATE. PROVIDE A NEW SCHEMATIC IF APPROPRIATE.

**C. Number of Regular Employees at this Facility**

3

**D. [Reserved]**



**(4) FLOW MEASUREMENT**

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

Process	Average	Maximum	Type of Discharge
Regulated (Core & Cyanide)	2830	3000	continuous
Regulated (Cyanide)	0	0	
§403.6(e) Unregulated*	0	0	
§403.6(e) Dilute	0	0	
Cooling Water	0	0	
Sanitary	75	125	batch
<b>Total Flow to POTW</b>	<b>2905</b>	<b>3125</b>	*****

\*"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 \_\_\_\_\_
- None

**B. COMMENTS ON TREATMENT SYSTEM**

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

Pollutant(mg/l)	Cd	Cr	Cu	Pb	Ni	Ag	Zn	CN	TTO*
Max for 1 day	0.11	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	0.0072	0.0084	0.053	<0.04	<0.01	<0.007	0.32	<0.01	n/a
Ave Measured									

Sample Location Effluent Sampling Point \*(schematic drawing)\*

Sample Type (Grab or Composite) Composite

Number of Samples and Frequency Collected 4; 2 hrs.

40CFR136 Preservation and Analytical Methods Use:  Yes  No

**(6) CERTIFICATION**

A. [Reserved]

[Reserved]

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

Brian Niswonger  
(Typed Name)



Brian Niswonger      04/29/13  
(Corporate Officer or authorized representative)

**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 \_\_\_\_\_, 200\_\_.

\_\_\_\_\_  
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(l)]**

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

**Brian Niswonger**

  
Brian Niswonger

NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE

SIGNATURE

**President**  
OFFICIAL TITLE

DATE SIGNED 04/29/13



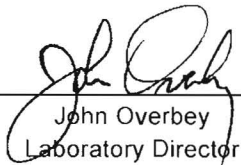
October 10, 2013  
Control No. 171330  
Page 1 of 5

Industrial Metal Finishing Inc.  
ATTN: Mr. Brian Niswonger  
Post Office Box 326  
Pocahontas, AR 72455

This report contains the analytical results and supporting information for samples submitted on October 8, 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



Industrial Metal Finishing Inc.  
Post Office Box 326  
Pocahontas, AR 72455

**SAMPLE INFORMATION**

**Project Description:**

Two (2) water sample(s) received on October 8, 2013  
IMF 1013

**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>
171330-1	IMF 1M, 1C 10/7/13 3:49pm	07-Oct-2013 1549	1
171330-2	IMF 2M, 2C 10/4/13 3:41, 3:51pm	04-Oct-2013 1551	1

**Notes:**

1. Received temperature of samples did not meet regulatory requirements

**Case Narrative:**

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

**References:**

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



Industrial Metal Finishing Inc.  
Post Office Box 326  
Pocahontas, AR 72455

**ANALYTICAL RESULTS**

**AIC No.** 171330-1

**Sample Identification:** IMF 1M, 1C 10/7/13 3:49pm

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
<b>Total Cyanide</b> SM 4500-CN C,E Prep: 09-Oct-2013 0817 by 308	<b>&lt; 0.01</b> Analyzed: 09-Oct-2013 1717 by 302	0.01	<b>mg/l</b> Batch: W45205	
<b>Cadmium</b> EPA 200.7 Prep: 09-Oct-2013 1103 by 311	<b>&lt; 0.004</b> Analyzed: 10-Oct-2013 1035 by 235	0.004	<b>mg/l</b> Batch: S35552	
<b>Chromium</b> EPA 200.7 Prep: 09-Oct-2013 1103 by 311	<b>&lt; 0.007</b> Analyzed: 10-Oct-2013 1035 by 235	0.007	<b>mg/l</b> Batch: S35552	
<b>Copper</b> EPA 200.7 Prep: 09-Oct-2013 1103 by 311	<b>0.028</b> Analyzed: 10-Oct-2013 1035 by 235	0.006	<b>mg/l</b> Batch: S35552	
<b>Lead</b> EPA 200.7 Prep: 09-Oct-2013 1103 by 311	<b>&lt; 0.04</b> Analyzed: 10-Oct-2013 1035 by 235	0.04	<b>mg/l</b> Batch: S35552	
<b>Nickel</b> EPA 200.7 Prep: 09-Oct-2013 1103 by 311	<b>&lt; 0.01</b> Analyzed: 10-Oct-2013 1035 by 235	0.01	<b>mg/l</b> Batch: S35552	
<b>Silver</b> EPA 200.7 Prep: 09-Oct-2013 1103 by 311	<b>&lt; 0.007</b> Analyzed: 10-Oct-2013 1035 by 235	0.007	<b>mg/l</b> Batch: S35552	
<b>Zinc</b> EPA 200.7 Prep: 09-Oct-2013 1103 by 311	<b>0.47</b> Analyzed: 10-Oct-2013 1035 by 235	0.002	<b>mg/l</b> Batch: S35552	

**AIC No.** 171330-2

**Sample Identification:** IMF 2M, 2C 10/4/13 3:41, 3:51pm

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
<b>Total Cyanide</b> SM 4500-CN C,E Prep: 09-Oct-2013 0817 by 308	<b>&lt; 0.01</b> Analyzed: 09-Oct-2013 1722 by 308	0.01	<b>mg/l</b> Batch: W45205	
<b>Cadmium</b> EPA 200.7 Prep: 09-Oct-2013 1103 by 311	<b>&lt; 0.004</b> Analyzed: 10-Oct-2013 1038 by 235	0.004	<b>mg/l</b> Batch: S35552	
<b>Chromium</b> EPA 200.7 Prep: 09-Oct-2013 1103 by 311	<b>&lt; 0.007</b> Analyzed: 10-Oct-2013 1038 by 235	0.007	<b>mg/l</b> Batch: S35552	
<b>Copper</b> EPA 200.7 Prep: 09-Oct-2013 1103 by 311	<b>0.026</b> Analyzed: 10-Oct-2013 1038 by 235	0.006	<b>mg/l</b> Batch: S35552	
<b>Lead</b> EPA 200.7 Prep: 09-Oct-2013 1103 by 311	<b>&lt; 0.04</b> Analyzed: 10-Oct-2013 1038 by 235	0.04	<b>mg/l</b> Batch: S35552	
<b>Nickel</b> EPA 200.7 Prep: 09-Oct-2013 1103 by 311	<b>0.017</b> Analyzed: 10-Oct-2013 1038 by 235	0.01	<b>mg/l</b> Batch: S35552	
<b>Silver</b> EPA 200.7 Prep: 09-Oct-2013 1103 by 311	<b>&lt; 0.007</b> Analyzed: 10-Oct-2013 1038 by 235	0.007	<b>mg/l</b> Batch: S35552	
<b>Zinc</b> EPA 200.7 Prep: 09-Oct-2013 1103 by 311	<b>1.1</b> Analyzed: 10-Oct-2013 1038 by 235	0.002	<b>mg/l</b> Batch: S35552	



Industrial Metal Finishing Inc.  
Post Office Box 326  
Pocahontas, AR 72455

**LABORATORY CONTROL SAMPLE RESULTS**

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	0.1 mg/l	91.4	85.0-115			W45205	09Oct13 0817 by 308	09Oct13 1715 by 302		
Cadmium	5 mg/l	98.3	85.0-115			S35552	09Oct13 1104 by 311	10Oct13 0953 by 235		
Chromium	0.5 mg/l	98.3	85.0-115			S35552	09Oct13 1104 by 311	10Oct13 0953 by 235		
Copper	0.5 mg/l	98.9	85.0-115			S35552	09Oct13 1104 by 311	10Oct13 0953 by 235		
Lead	5 mg/l	100	85.0-115			S35552	09Oct13 1104 by 311	10Oct13 0953 by 235		
Nickel	0.5 mg/l	101	85.0-115			S35552	09Oct13 1104 by 311	10Oct13 0953 by 235		
Silver	0.1 mg/l	98.0	85.0-115			S35552	09Oct13 1104 by 311	10Oct13 0953 by 235		
Zinc	0.5 mg/l	96.8	85.0-115			S35552	09Oct13 1104 by 311	10Oct13 0953 by 235		

**MATRIX SPIKE SAMPLE RESULTS**

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	171330-1	0.1 mg/l	104	75.0-125	W45205	09Oct13 0817 by 308	09Oct13 1718 by 302		
	171330-1	0.1 mg/l	88.1	75.0-125	W45205	09Oct13 0817 by 308	09Oct13 1720 by 302		
	Relative Percent Difference:		16.4	20.0	W45205				
Cadmium	171346-1	5 mg/l	92.7	75.0-125	S35552	09Oct13 1104 by 311	10Oct13 0956 by 235		
	171346-1	5 mg/l	92.6	75.0-125	S35552	09Oct13 1104 by 311	10Oct13 1000 by 235		
	Relative Percent Difference:		0.0877	20.0	S35552				
Chromium	171346-1	0.5 mg/l	92.8	75.0-125	S35552	09Oct13 1104 by 311	10Oct13 0956 by 235		
	171346-1	0.5 mg/l	93.0	75.0-125	S35552	09Oct13 1104 by 311	10Oct13 1000 by 235		
	Relative Percent Difference:		0.125	20.0	S35552				
Copper	171346-1	0.5 mg/l	102	75.0-125	S35552	09Oct13 1104 by 311	10Oct13 0956 by 235		
	171346-1	0.5 mg/l	102	75.0-125	S35552	09Oct13 1104 by 311	10Oct13 1000 by 235		
	Relative Percent Difference:		0.305	20.0	S35552				
Lead	171346-1	5 mg/l	97.6	75.0-125	S35552	09Oct13 1104 by 311	10Oct13 0956 by 235		
	171346-1	5 mg/l	97.8	75.0-125	S35552	09Oct13 1104 by 311	10Oct13 1000 by 235		
	Relative Percent Difference:		0.241	20.0	S35552				
Nickel	171346-1	0.5 mg/l	94.9	75.0-125	S35552	09Oct13 1104 by 311	10Oct13 0956 by 235		
	171346-1	0.5 mg/l	95.2	75.0-125	S35552	09Oct13 1104 by 311	10Oct13 1000 by 235		
	Relative Percent Difference:		0.312	20.0	S35552				
Silver	171346-1	0.1 mg/l	94.9	75.0-125	S35552	09Oct13 1104 by 311	10Oct13 0956 by 235		
	171346-1	0.1 mg/l	95.4	75.0-125	S35552	09Oct13 1104 by 311	10Oct13 1000 by 235		
	Relative Percent Difference:		0.460	20.0	S35552				
Zinc	171346-1	0.5 mg/l	94.3	75.0-125	S35552	09Oct13 1104 by 311	10Oct13 0956 by 235		
	171346-1	0.5 mg/l	95.0	75.0-125	S35552	09Oct13 1104 by 311	10Oct13 1000 by 235		
	Relative Percent Difference:		0.670	20.0	S35552				



Industrial Metal Finishing Inc.  
 Post Office Box 326  
 Pocahontas, AR 72455

**LABORATORY BLANK RESULTS**

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Cyanide	< 0.01 mg/l	0.01	0.01	W45205-1	09Oct13 0817 by 308	09Oct13 1713 by 302	
Cadmium	< 0.004 mg/l	0.004	0.004	S35552-1	09Oct13 1104 by 311	10Oct13 0950 by 235	
Chromium	< 0.007 mg/l	0.007	0.007	S35552-1	09Oct13 1104 by 311	10Oct13 0950 by 235	
Copper	< 0.006 mg/l	0.006	0.006	S35552-1	09Oct13 1104 by 311	10Oct13 0950 by 235	
Lead	< 0.04 mg/l	0.04	0.04	S35552-1	09Oct13 1104 by 311	10Oct13 0950 by 235	
Nickel	< 0.01 mg/l	0.01	0.01	S35552-1	09Oct13 1104 by 311	10Oct13 0950 by 235	
Silver	< 0.007 mg/l	0.007	0.007	S35552-1	09Oct13 1104 by 311	10Oct13 0950 by 235	
Zinc	< 0.002 mg/l	0.002	0.002	S35552-1	09Oct13 1104 by 311	10Oct13 0950 by 235	





CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

PAGE 1 OF 1

Client: <i>Industrial Metal Finishing</i>			PO No.		NO OF BOTTLES	ANALYSES REQUESTED <sup>1</sup>										AIC CONTROL NO: <i>171330</i>	
Project Reference: <i>IMF 1013</i>			SAMPLE MATRIX			<div style="display: flex; justify-content: space-around;"> <span>METALS</span> <span>Cyanide</span> </div>										AIC PROPOSAL NO:	
Project Manager: <i>Brian Aiswanger</i>			WATER	SOIL												Carrier/Tracking No. <i>UPS</i>	
Sampled By: <i>same as above</i>															GRA	COMP	Received Temperature C <i>19.7 C</i>
AIC No.	Sample Identification	Date/Time Collected															
<i>1</i>	<i>IMF 1 M</i>	<i>10-7-13 3:49pm</i>	X	X													
<i>2</i>	<i>IMF 1 C</i>	<i>10-7-13 3:49pm</i>	X	X													
<i>3</i>	<i>IMF 2 M</i>	<i>10-4-13 3:41pm</i>	X	X													
<i>4</i>	<i>IMF 2 C</i>	<i>10-4-13 3:51pm</i>	X	X													
Container Type																	Field pH calibration on _____ @ _____
Preservative																	Buffer:
G = Glass P = Plastic V = VOA vials. H = HCl to pH2 T = Sodium Thiosulfate			NO = none S = Sulfuric acid pH2 N = Nitric acid pH2			B = NaOH to pH12			Z = Zinc acetate								
Turnaround Time Requested: (Please circle) <u>NORMAL</u> or EXPEDITED IN _____ DAYS					Relinquished By: <i>[Signature]</i>		Date/Time: <i>10/7/13 4:25pm</i>		Received By: <i>[Signature]</i>		Date/Time: <i>10/7/13 4:25pm</i>						
Expedited results requested by: _____					Relinquished By: _____		Date/Time: _____		Received in Lab By: <i>[Signature]</i>		Date/Time: <i>10/8/13 10:15</i>						
Who should AIC contact with questions: <i>Brian Aiswanger</i>					Comments: <i>Samples were taken every 2 hrs during an 8 hour work period</i>												
Phone: <i>870 886 7531</i> Fax: <i>870 886 9546</i>																	
Report Attention to: _____																	
Report Address to: _____																	

①  
②  
③  
④