NPDES Permit No. IL0003581 Notice No. LRL:13032201.daa

Public Notice Beginning Date: September 6, 2013

Public Notice Ending Date: October 7, 2013

National Pollutant Discharge Elimination System (NPDES)
Permit Program

Draft Reissued NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

Illinois Environmental Protection Agency Bureau of Water Division of Water Pollution Control Permit Section 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276 217/782-0610

Name and Address of Discharger:

Name and Address of Facility:

Quality Metal Finishing 421 North Walnut Street Byron, Illinois 61010 Quality Metal Finishing 421 North Walnut Street Byron, Illinois 61010 (Ogle County)

The Illinois Environmental Protection Agency (IEPA) has made a tentative determination to issue a NPDES permit to discharge into the waters of the state and has prepared a draft permit and associated fact sheet for the above named discharger. The Public Notice period will begin and end on the dates indicated in the heading of this Public Notice/Fact Sheet. The last day comments will be received will be on the Public Notice period ending date unless a commentor demonstrating the need for additional time requests an extension to this comment period and the request is granted by the IEPA. Interested persons are invited to submit written comments on the draft permit to the IEPA at the above address. Commentors shall provide his or her name and address and the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to those issues. Commentors may include a request for public hearing. Persons submitting comments and/or requests for public hearing shall also send a copy of such comments or requests to the permit applicant. The NPDES permit and notice number(s) must appear on each comment page.

The application, engineer's review notes including load limit calculations, Public Notice/Fact Sheet, draft permit, comments received, and other documents are available for inspection and may be copied at the IEPA between 9:30 a.m. and 3:30 p.m. Monday through Friday when scheduled by the interested person.

If written comments or requests indicate a significant degree of public interest in the draft permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 45 days before any public hearing. Response to comments will be provided when the final permit is issued. For further information, please call Leslie Lowry at 217/782-0610.

The applicant is engaged in zinc die casting and electroplating of hardware (SIC 3364). Plant operation results in an average discharge of 0.0276 MGD of treated zinc die casting and electroplating wastewater from outfall 001 and 0.0191 MGD of non-contact cooling water from outfall 002.

Public Notice/Fact Sheet -- Page 2 -- NPDES Permit No. IL0003581

Application is made for existing discharges which are located in Ogle County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

<u>Outfall</u>	Receiving Stream	<u>Latitude</u>		<u>Longitude</u>		Stream Classification	Integrity <u>Rating</u>
001	Rock River	42° 07' 46"	North	89° 15' 24"	West	General Use	Not Rated
002	Rock River	42° 07' 46"	North	89° 15' 27"	West	General Use	Not Rated

To assist you further in identifying the location of the discharge please see the attached map.

The stream segment P-14 receiving the discharge from outfalls 001 and 002 is on the 2012 303(d) list of impaired waters and is not a biologically significant stream on the 2008 Illinois Department of Natural Resources Publication – *Integrating Multiple Taxa in a Biological Stream Rating System*.

The following parameters have been identified as the pollutants causing impairment:

Potential Cause:	Designated Use:
PCB's and Mercury	Fish Consumption

The discharges from the facility shall be monitored and limited at all times as follows:

	LOAD LIMITS lbs/day <u>DAF (DMF)</u>			CONCENTRATION LIMITS mg/l		
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION
Outfall 001:						
Flow (MGD)						
рН				6 – 9	s.u	35 IAC 304.125
Total Residual Chlorine					0.05	40 CFR 125.3 and 35 IAC 302.208
Oil & Grease	5.9	12	40 CFR 433	15	30	35 IAC 304.124
Total Suspended Solids	7.1	14	40 CFR 433	15	30	35 IAC 304.124
Chromium (Total)	0.39	0.64	40 CFR 433	1	2	35 IAC 304.124
Chromium (Hexavalent)	0.06	0.19	35 IAC 304.124	0.1	0.2	35 IAC 304.124
Cadmium	0.06	0.16	40 CFR 433	0.15	0.3	35 IAC 304.124
Lead	0.1	0.16	40 CFR 433	0.2	0.4	35 IAC 304.124
Nickel	0.55	0.92	40 CFR 433	1	2	35 IAC 304.124
Silver	0.06	0.1	40 CFR 433	0.1	0.2	35 IAC 304.124
Zinc	0.34	0.6	40 CFR 433	1	2	35 IAC 304.124
Copper	0.31	0.92	40 CFR 122.44(I)	0.5	0.508	40 CFR 122.44(I)
Cyanide (Total)	0.06	0.19	35 IAC 304.124	0.1	0.2	35 IAC 304.124
Total Toxic Organics		0.49	40 CFR 433		2.13	40 CFR 433

Public Notice/Fact Sheet -- Page 3 -- NPDES Permit No. IL0003581

Boron			Monitor Only			
	LOAD LIMITS lbs/day <u>DAF (DMF)</u>			CONCENTRATION LIMITS mg/l		
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION
Outfall 002:						
Flow (MGD)						
pН				6 – 9 s.u.		35 IAC 304.125
Temperature						35 IAC 302.211
Total Residual Chlorine					0.05	40 CFR 125.3 and 35 IAC 302.208

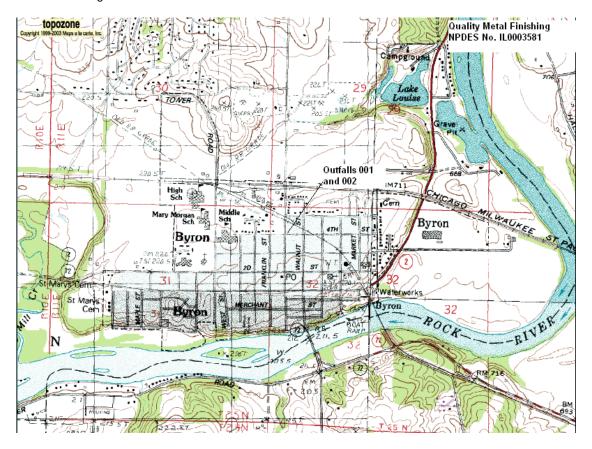
Load Limit Calculations:

- A. Load limit calculations for the following pollutant parameters were based on a design average flow of 0.0754 MGD and a design maximum flow of 0.115 MGD using the formula of average or maximum flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day): Oil & Grease, Total Suspended Solids, Chromium (Total), Chromium (Hexavalent), Cadmium, Lead, Nickel, Silver, Zinc, Copper, Cyanide (Total).
- B. Load limit calculations for the following pollutant parameters were based on a average flow of 0.0276 MGD using the formula of average or maximum flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day): Oil & Grease, Total Suspended Solids, Chromium (Total), Cadmium, Lead, Nickel, Silver, Zinc, Copper, Cyanide (Total), and Total Toxic Organics.

The load limits appearing in the permit will be the more stringent of the State and Federal Guidelines.

The Special Conditions clarify flow, pH, temperature, total residual chlorine, monitoring location, mixing zone for boron, total toxic organics plan, and discharge monitoring report submission.

Public Notice/Fact Sheet -- Page 4 -- NPDES Permit No. IL0003581



Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date: Issue Date: Effective Date:

Name and Address of Permittee: Facility Name and Address:

Quality Metal FinishingQuality Metal Finishing421 North Walnut Street421 North Walnut StreetByron, Illinois 61010Byron, Illinois 61010

(Ogle County)

Discharge Number and Name: Receiving Waters:

001Treated Process WaterRock River002Non-Contact Cooling WaterRock River

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of Ill. Adm. Code, Subtitle C and/or Subtitle D, Chapter 1, and the Clean Water Act (CWA), the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Alan Keller, P.E. Manager, Permit Section Division of Water Pollution Control

SAK:LRL:13032201.daa

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharges shall be monitored and limited at all times as follows:

	LOAD LIMITS lbs/day <u>DAF (DMF)</u>		CONCENT <u>LIMITS</u>	_		
PARAMETER	30 DAY	DAILY	30 DAY	DAILY	SAMPLE	SAMPLE
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	FREQUENCY	TYPE

Outfall 001 – Treated Process Water (DAF = 0.0754 MGD)

The discharge consists of:

- 1. Plating Line #1 Wastewater
- 2. Re-Plating Wastewater

Flow (MGD)	See Special Co	ondition 1.			1/Week	Measure
рН	See Special Co	ondition 2.			1/Week	Grab
Total Residual Chlorine	See Special Co	See Special Condition 4.		0.05	1/Month	Grab
Oil & Grease	5.9	12	15	15 30		24-Hour Composite
Total Suspended Solids	7.1	14	15	30	1/Week	24-Hour Composite
Chromium (Total)	0.39	0.64	1	2	1/Week	24-Hour Composite
Chromium (Hexavalent)	0.06	0.19	0.1	0.2	1/Month	24-Hour Composite
Cadmium	0.06	0.16	0.15	0.3	2/Year	24-Hour Composite
Lead	0.1	0.16	0.2	0.4	2/Year	24-Hour Composite
Nickel	0.55	0.92	1	2	1/Week	24-Hour Composite
Silver	0.06	0.1	0.1	0.2	2/Year	24-Hour Composite
Zinc	0.34	0.6	1	2	1/Week	24-Hour Composite
Copper	0.31	0.92	0.5	0.508	1/Week	24-Hour Composite
Cyanide (Total)	0.06	0.19	0.1	0.2	1/Week	24-Hour Composite
Total Toxic Organics***		0.49		2.13	1/Quarter	24-Hour Composite
Boron**			Monitor Only		2/Year	24-Hour Composite
* - See Special Condition ** - See Special Condition *** - See Special Condition	13.					

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharges shall be monitored and limited at all times as follows:

	LOAD LIMI <u>DAF (</u>	,	CONCENTRATION LIMITS mg/l				
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE	
Outfall 002 – Non-Contact Cooling Water* (Average Flow = 0.1 MGD)							
Flow (MGD)	See Special Cond	dition 1.			1/Month	Measure	
рН	See Special Cond	dition 2.			1/Month	Grab	
Temperature	See Special Cond	dition 3.			1/Month	Grab	
Total Residual Chlorine	See Special Cond	dition 4.		0.05	1/Month	Grab	
* - See Special Condition							

Special Conditions

<u>SPECIAL CONDITION 1</u>. Flow shall be measured in units of Million Gallons per Day (MGD) and reported as a monthly average and daily maximum on the Discharge Monitoring Report.

<u>SPECIAL CONDITION 2</u>. The pH shall be in the range 6.0 to 9.0. The monthly minimum and monthly maximum values shall be reported on the DMR form.

<u>SPECIAL CONDITION 3</u>. This facility is not allowed any mixing with the receiving stream in order to meet applicable water quality thermal limitations. Therefore, discharge of wastewater from this facility must meet the following thermal limitations prior to discharge into the receiving stream.

A. The discharge must not exceed the maximum limits in the following table during more than one percent of the hours in the 12 month period ending with any month. Moreover, at no time shall the water temperature of the discharge exceed the maximum limits in the following table by more the 1.7° C (3° F).

	<u>Jan.</u>	<u>Feb.</u>	Mar.	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	Aug.	Sept.	Oct.	Nov.	Dec.
°F	60	60	60	90	90	90	90	90	90	90	90	60
°C	16	16	16	32	32	32	32	32	32	32	32	16

- B. In addition, the discharge shall not cause abnormal temperature changes that may adversely affect aquatic life unless caused by natural conditions.
- C. The discharge shall not cause the maximum temperature rise above natural temperatures to exceed 2.8° C (5° F).
- D. The monthly maximum value shall be reported on the DMR form.

<u>SPECIAL CONDITION 4</u>. All samples for Total Residual Chlorine shall be analyzed by an applicable method contained in 40 CFR 136, equivalent in accuracy to low-level amperometric titration or other methods found in Standard Methods for Examination of Water and Wastewater, current edition. Any analytical variability of the method used shall be considered when determining the accuracy and precision of the results.

<u>SPECIAL CONDITION 5</u>. Samples taken in compliance with the effluent monitoring requirements for outfall 002 shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

<u>SPECIAL CONDITION 6.</u> Samples taken in compliance with the effluent monitoring requirements for outfall 001 shall be taken at a point representative of the discharge, but prior to combining with non-contact cooling water and prior to entry into the stream.

<u>SPECIAL CONDITION 7</u>. The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) Forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee may choose to submit electronic DMRs (eDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the eDMR program, can be obtained on the IEPA website, http://www.epa.state.il.us/water/edmr/index.html.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 15th day of the following month, unless otherwise specified by the permitting authority.

Permittees not using eDMRs shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section, Mail Code # 19

SPECIAL CONDITION 8. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.

Special Conditions

<u>SPECIAL CONDITION 9</u>. For the purpose of this permit, the discharge 002 is limited to non-contact cooling water, free from process and other wastewater discharges. In the event that the permittee shall require the use of water treatment additives, the permittee must request a modification of this permit in accordance with the Standard Conditions -- Attachment H.

<u>SPECIAL CONDITION 10</u>. In addition to other requirements of this permit, no effluent shall contain settleable solids, floating debris, visible oil, grease, scum, or sludge solids. Color, odor, and the turbidity shall be reduced to below obvious levels.

<u>SPECIAL CONDITION 11</u>. If an applicable effluent standard or limitation is promulgated under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act and that effluent standard or limitation is more stringent than any effluent limitation in the permit or controls a pollutant not limited in the NPDES Permit, the Agency shall revise or modify the permit in accordance with the more stringent standard or prohibition and shall so notify the permittee.

<u>SPECIAL CONDITION 12</u>. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 III. Adm. Code 302.

<u>SPECIAL CONDITION 13</u>. A mixing zone is recognized for Boron with dimensions extending 20 feet across the width of the river and 20 feet downstream. Within the mixing zone at least 40:1 dilution is afforded.

SPECIAL CONDITION 14. TOTAL TOXIC ORGANIC MANAGEMENT PLAN

The permittee does not currently use or store any chemicals outlined on the Total Toxic Organic (TTO) list contained in 40 CFR 433. In the event that the permittee shall store or use any chemicals outlined on the TTO list contained in 40 CFR 433, the permittee must request a modification of this permit in accordance with the Standard Conditions -- Attachment H.

Following implementation of the Total Toxic Organic Management Plan the permittee may make the following certification statement in lieu of monitoring for TTO:

Based on my inquiry of the persons directly for managing compliance with the permit limit for total toxic organic, I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into wastewater has occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the Illinois EPA.

This statement is to be included as a comment on the Discharge Monitoring Report if the certification alternative is chosen.

If for any reason the permittee is unable to make the certification statement, monitoring for TTO shall consist of at least two grab samples for volatile pollutants and a 24 hour composite for base neutrals and acid fractions. Sampling shall be performed according to the schedule listed on page two of this permit and commence the first quarter that the certification statement is not made and continue, on a calendar quarter basis, until the certification is resumed