

NPDES Permit No. IL0070971
Notice No. MEL:11101104.bah

Public Notice Beginning Date: **March 23, 2012**

Public Notice Ending Date: **April 23, 2012**

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:

Illinois Tool Works, Inc.
3600 West Lake Avenue
Glenview, Illinois 60025

Name and Address of Facility:

Illinois Tool Works - Harwood Heights
7300 West Lawrence Avenue
Harwood Heights, Illinois 60656
(Cook 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 Mark E. Liska at 217/782-0610.

The applicant was formerly engaged in the manufacture of non-destructive testing equipment for machined metal components (SIC 3569). Waste water is generated from remediation of groundwater that is contaminated with volatile organic compounds. Plant operation results in an average discharge of 0.00342 MGD of treated contaminated groundwater from outfall 001.

Application is made for the existing discharge(s) which is located in Cook County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

Outfall	Receiving Stream	Latitude	Longitude	Stream Classification	Integrity Rating
001	Storm Sewer tributary to Des Plaines River	42° 57' 55" North	87° 48' 30" West	General Use	D

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

The stream segment G-30 receiving the discharge from outfall(s) 001 is on the 2010 303(d) list of impaired waters and is not a biologically significant stream on the 2010 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:

Designated Use	Potential Cause
Aquatic Life	Chloride, Dissolved Oxygen, Phosphorus, Total Suspended Solids
Fish Consumption	Mercury, PCBs
Primary Contact	Fecal Coliform

The discharge(s) from the facility shall be monitored and limited at all times as follows:

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/L		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Outfall: 001 - Treated Groundwater from Soil Vapor Extraction System (DAF = 0.00342 MGD)						
Flow						35 IAC 309.146
pH				6.0-9.0		35 IAC 304.125
Methyl Ethyl Ketone	0.013	0.026	40 CFR 122.44(l)	0.22	0.44	40 CFR 122.44(l)
Trichloroethylene	0.003	0.006	40 CFR 122.44(l)	0.05	0.10	40 CFR 122.44(l)
1,1,1 Trichloroethane	0.003	0.006	40 CFR 122.44(l)	0.05	0.10	40 CFR 122.44(l)
1,1 Dichloroethane	0.003	0.006	40 CFR 122.44(l)	0.05	0.10	40 CFR 122.44(l)

Load Limit Calculations:

A. Load limit calculations for the following pollutant parameters were based on a maximum flow of 0.0072 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):

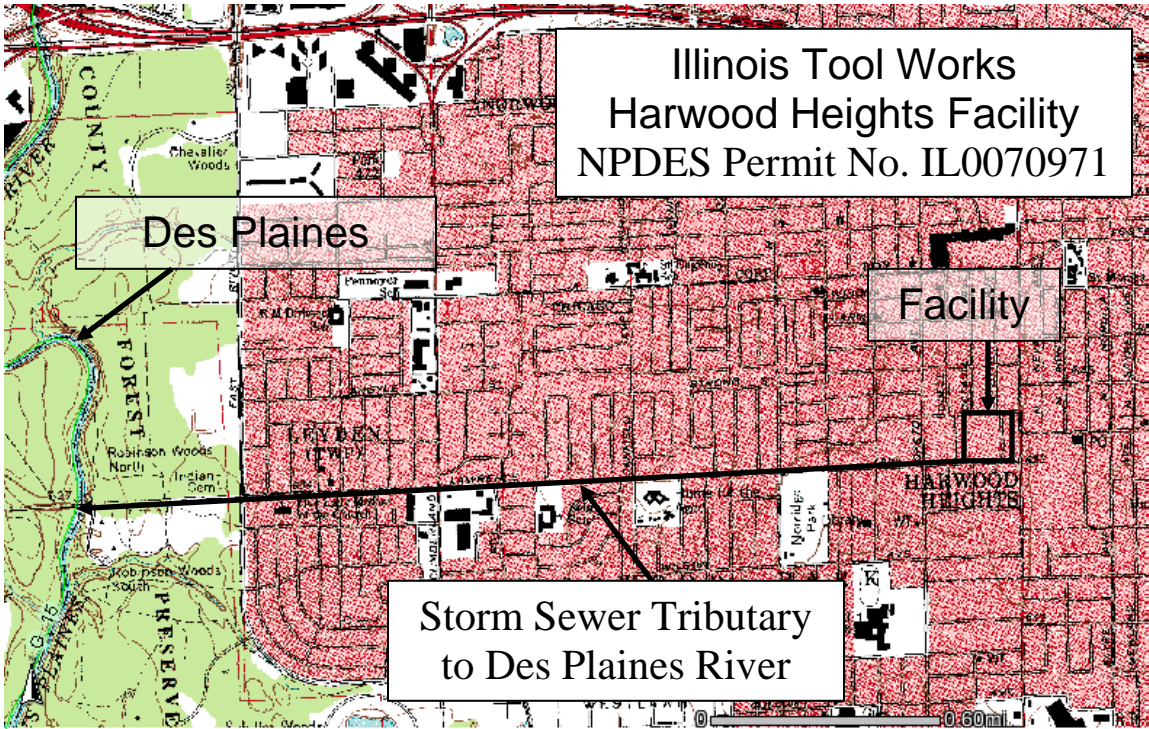
The following sample calculation shows the methodology utilized to determine production based load limitations:

For Methyl Ethyl Ketone:

$$0.0072 \text{ MGD} \times 8.34 \times 0.22/0.44 \text{ mg/L} = 0.013/0.026 \text{ lb/day}$$

The following explain the conditions of the proposed permit:

Special Conditions will require monthly DMR submission, explain monitoring procedures, and require a Class K Operator License.



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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:

Illinois Tool Works, Inc.
3600 West Lake Avenue
Glenview, Illinois 60025

Facility Name and Address:

Illinois Tool Works - Harwood Heights
7300 West Lawrence Avenue
Harwood Heights, Illinois 60656
(Cook County)

Discharge Number and Name:

001 – Treated Groundwater from Soil Vapor Extraction System

Receiving Waters:

Storm Sewer tributary to Des Plaines 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: MEL:11101104.bah

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Effluent Limitations and Monitoring

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

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/L		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Outfall: 001 - Treated Groundwater from Soil Vapor Extraction System (DAF = 0.00342 MGD)						
Flow	See Special Condition 1				Continuous	Measure
pH	See Special Condition 2				1/Month	Grab
Methyl Ethyl Ketone	0.013	0.026	0.22	0.44	1/Month	Grab
Trichloroethylene	0.003	0.006	0.05	0.10	1/Month	Grab
1,1,1 Trichloroethane	0.003	0.006	0.05	0.10	1/Month	Grab
1,1 Dichloroethane	0.003	0.006	0.05	0.10	1/Month	Grab

Special Conditions

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

SPECIAL CONDITION 2. 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.

SPECIAL CONDITION 3. 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 4. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

SPECIAL CONDITION 5. 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.

SPECIAL CONDITION 6. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.