

NPDES Permit No. IL0001619
Notice No. LRL:12030701.daa

Public Notice Beginning Date: **February 14, 2013**

Public Notice Ending Date: **March 18, 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:

Styrolution America LLC
25846 S. Frontage Road
Channahon, Illinois 60410

Name and Address of Facility:

Styrolution America LLC
25846 S. Frontage Road
Channahon, Illinois 60410
(Will County)

The Illinois Environmental Protection Agency (IEPA) has made a tentative determination to modify an 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 the production of general purpose and high impact polystyrene (SIC 2821). Plant operation results in an average discharge of 0.122 MGD of treated process, utilities, strand bath, wash water, stormwater, and sanitary waste waters from outfall 001, an intermittent discharge of stormwater and firewater from outfall 002, and an intermittent discharge of stormwater and firewater from outfall 003.

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

<u>Outfall</u>	<u>Receiving Stream</u>	<u>Latitude</u>		<u>Longitude</u>		<u>Stream Classification</u>	<u>Integrity Rating</u>
001	Des Plaines River	41° 25' 10"	North	88° 11' 50"	West	General Use	Not Rated
002	Des Plaines River	41° 25' 10"	North	88° 11' 50"	West	General Use	Not Rated
003	Des Plaines River	41° 25' 10"	North	88° 11' 50"	West	General Use	Not Rated

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

The stream segment G-24 receiving the discharge from outfalls 001, 002, and 003 is on the 2010 303(d) list of impaired waters and is not a biologically significant stream on the 2008 Illinois Department of the Natural Resources Publication *Integrating Multiple Taxa in a Biological Stream Rating System*.

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

<u>Designated Use</u>	<u>Potential Cause</u>
Aquatic Life and Fish Consumption	Arsenic, Copper, Methoxychlor, Other Flow Regime Alterations, Polychlorinated Biphenyls, Sedimentation/Siltation, Total Suspended Solids, Phosphorus (Total), and Mercury

This Permit recognizes and continues the seasonal disinfection exemption approved by the IEPA on September 9, 1991 and included in past NPDES permit actions since that date.

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

PARAMETER	LOAD LIMITS lbs/day <u>DAF (DMF)</u>		REGULATION	CONCENTRATION <u>LIMITS mg/l</u>		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
<u>Outfall 001:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Fecal Coliform					400/100 ml	35 IAC 304.121
BOD ₅	15	40	40 CFR 414.41	24	64	40 CFR 414.41
Total Suspended Solids	29	89	40 CFR 414.41	30	60	35 IAC 304.120
Iron (Total)	3	7.6	35 IAC 304.124 and 40 CFR 122.44L	2	4	35 IAC 304.124
Oil and Grease	23	57	35 IAC 304.124 and 40 CFR 122.44L	15	30	35 IAC 304.124
Zinc (Total)	0.405	0.609	40 CFR 414.91	1	2	35 IAC 304.124
Acrylonitrile	0.058	0.147	40 CFR 414.91	0.096	0.242	40 CFR 414.91
Acenaphthene	0.013	0.036	40 CFR 414.91	0.022	0.059	40 CFR 414.91
Benzene	0.023	0.083	40 CFR 414.91	0.037	0.136	40 CFR 414.91
Carbon Tetrachloride	0.011	0.023	40 CFR 414.91	0.018	0.038	40 CFR 414.91

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
<u>Outfall 001 cont.:</u>						
Chlorobenzene	0.009	0.017	40 CFR 414.91	0.015	0.028	40 CFR 414.91
1,2,4-Trichlorobenzene	0.041	0.085	40 CFR 414.91	0.068	0.14	40 CFR 414.91
Hexachlorobenzene	0.009	0.017	40 CFR 414.91	0.015	0.028	40 CFR 414.91
1,2-Dichloroethane	0.041	0.128	40 CFR 414.91	0.068	0.211	40 CFR 414.91
1,1,1-Trichloroethane	0.013	0.033	40 CFR 414.91	0.021	0.054	40 CFR 414.91
Hexachloroethane	0.013	0.033	40 CFR 414.91	0.021	0.054	40 CFR 414.91
1,1-Dichloroethane	0.013	0.036	40 CFR 414.91	0.022	0.059	40 CFR 414.91
1,1,2-Trichloroethane	0.013	0.033	40 CFR 414.91	0.021	0.054	40 CFR 414.91
Chloroethane	0.063	0.163	40 CFR 414.91	0.104	0.268	40 CFR 414.91
Chloroform	0.013	0.028	40 CFR 414.91	0.021	0.046	40 CFR 414.91
2-Chlorophenol	0.019	0.065	40 CFR 414.91	0.031	0.098	40 CFR 414.91
1,2-Dichlorobenzene	0.047	0.099	40 CFR 414.91	0.077	0.163	40 CFR 414.91
1,3-Dichlorobenzene	0.019	0.027	40 CFR 414.91	0.031	0.044	40 CFR 414.91
1,4-Dichlorobenzene	0.009	0.017	40 CFR 414.91	0.015	0.028	40 CFR 414.91
1,1-Dichloroethylene	0.01	0.015	40 CFR 414.91	0.016	0.025	40 CFR 414.91
1,2-Trans-Dichloroethylene	0.013	0.033	40 CFR 414.91	0.021	0.054	40 CFR 414.91
2,4-Dichlorophenol	0.024	0.074	40 CFR 414.91	0.039	0.112	40 CFR 414.91
1,2-Dichloropropane	0.093	0.14	40 CFR 414.91	0.153	0.23	40 CFR 414.91
1,3-Dichloropropylene	0.018	0.027	40 CFR 414.91	0.029	0.044	40 CFR 414.91
2,4-Dimethylphenol	0.011	0.022	40 CFR 414.91	0.018	0.036	40 CFR 414.91
2,4-Dinitrotoluene	0.069	0.173	40 CFR 414.91	0.113	0.285	40 CFR 414.91
2,6-Dinitrotoluene	0.155	0.39	40 CFR 414.91	0.255	0.641	40 CFR 414.91
Ethylbenzene	0.019	0.066	40 CFR 414.91	0.014	0.15	35 IAC 302.208
Fluoranthene	0.015	0.041	40 CFR 414.91	0.025	0.068	40 CFR 414.91
Methylene Chloride	0.024	0.054	40 CFR 414.91	0.04	0.089	40 CFR 414.91
Methyl Chloride	0.052	0.116	40 CFR 414.91	0.086	0.19	40 CFR 414.91
Hexachlorobutadiene	0.012	0.03	40 CFR 414.91	0.02	0.049	40 CFR 414.91
Naphthalene	0.013	0.036	40 CFR 414.91	0.022	0.059	40 CFR 414.91
Nitrobenzene	0.016	0.041	40 CFR 414.91	0.027	0.068	40 CFR 414.91
2-Nitrophenol	0.025	0.042	40 CFR 414.91	0.041	0.069	40 CFR 414.91

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
<u>Outfall 001 cont.:</u>						
4-Nitrophenol	0.044	0.075	40 CFR 414.91	0.072	0.124	40 CFR 414.91
2,4-Dinitrophenol	0.043	0.075	40 CFR 414.91	0.071	0.123	40 CFR 414.91
4,6-Dinitro-o-cresol	0.047	0.169	40 CFR 414.91	0.078	0.277	40 CFR 414.91
Phenol	0.009	0.016	40 CFR 414.91	0.015	0.026	40 CFR 414.91
Bis(2-ethylhexyl) Phthalate	0.063	0.17	40 CFR 414.91	0.103	0.279	40 CFR 414.91
Di-n-butyl Phthalate	0.016	0.035	40 CFR 414.91	0.027	0.057	40 CFR 414.91
Diethyl Phthalate	0.049	0.124	40 CFR 414.91	0.081	0.203	40 CFR 414.91
Dimethyl Phthalate	0.012	0.029	40 CFR 414.91	0.019	0.047	40 CFR 414.91
Benzo(a)anthracene	0.013	0.036	40 CFR 414.91	0.022	0.059	40 CFR 414.91
Benzo(a)pyrene	0.014	0.037	40 CFR 414.91	0.023	0.061	40 CFR 414.91
3,4-Benzofluoranthene	0.014	0.037	40 CFR 414.91	0.023	0.061	40 CFR 414.91
Benzo(k)fluoranthene	0.013	0.036	40 CFR 414.91	0.022	0.059	40 CFR 414.91
Chrysene	0.013	0.036	40 CFR 414.91	0.022	0.059	40 CFR 414.91
Acenaphthylene	0.013	0.036	40 CFR 414.91	0.022	0.059	40 CFR 414.91
Anthracene	0.013	0.036	40 CFR 414.91	0.022	0.059	40 CFR 414.91
Fluorene	0.013	0.036	40 CFR 414.91	0.022	0.059	40 CFR 414.91
Phenanthrene	0.013	0.036	40 CFR 414.91	0.022	0.059	40 CFR 414.91
Pyrene	0.015	0.041	40 CFR 414.91	0.025	0.067	40 CFR 414.91
Tetrachloroethylene	0.013	0.034	40 CFR 414.91	0.022	0.056	40 CFR 414.91
Toluene	0.016	0.049	40 CFR 414.91	0.026	0.08	40 CFR 414.91
Trichloroethylene	0.013	0.033	40 CFR 414.91	0.021	0.054	40 CFR 414.91
Vinyl Chloride	0.063	0.163	40 CFR 414.91	0.104	0.268	40 CFR 414.91
Chromium (Total)	0.145	0.361	40 CFR 414.91	1	2	35 IAC 304.124
Copper (Total)	0.189	0.493	40 CFR 414.91	0.5	1	35 IAC 304.124
Cyanide (Total)	0.055	0.157	40 CFR 414.91	0.1	0.2	35 IAC 304.124
Lead (Total)	0.042	0.09	40 CFR 414.91	0.2	0.4	35 IAC 304.124
Nickel (Total)	0.22	0.507	40 CFR 414.91	1	2	35 IAC 304.124
Styrene				Monitor Only		
Iron (Dissolved)				Monitor Only		
Boron				Monitor Only		

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
<u>Outfalls 002:</u>						
Flow (MGD)						
Total Suspended Solids				Monitor Only		
Iron (Total)				Monitor Only		
SWPPP						
<u>Outfalls 003:</u>						
Flow (MGD)						
Total Suspended Solids				Monitor Only		
Iron (Total)				Monitor Only		
SWPPP						

Load Limit Calculations:

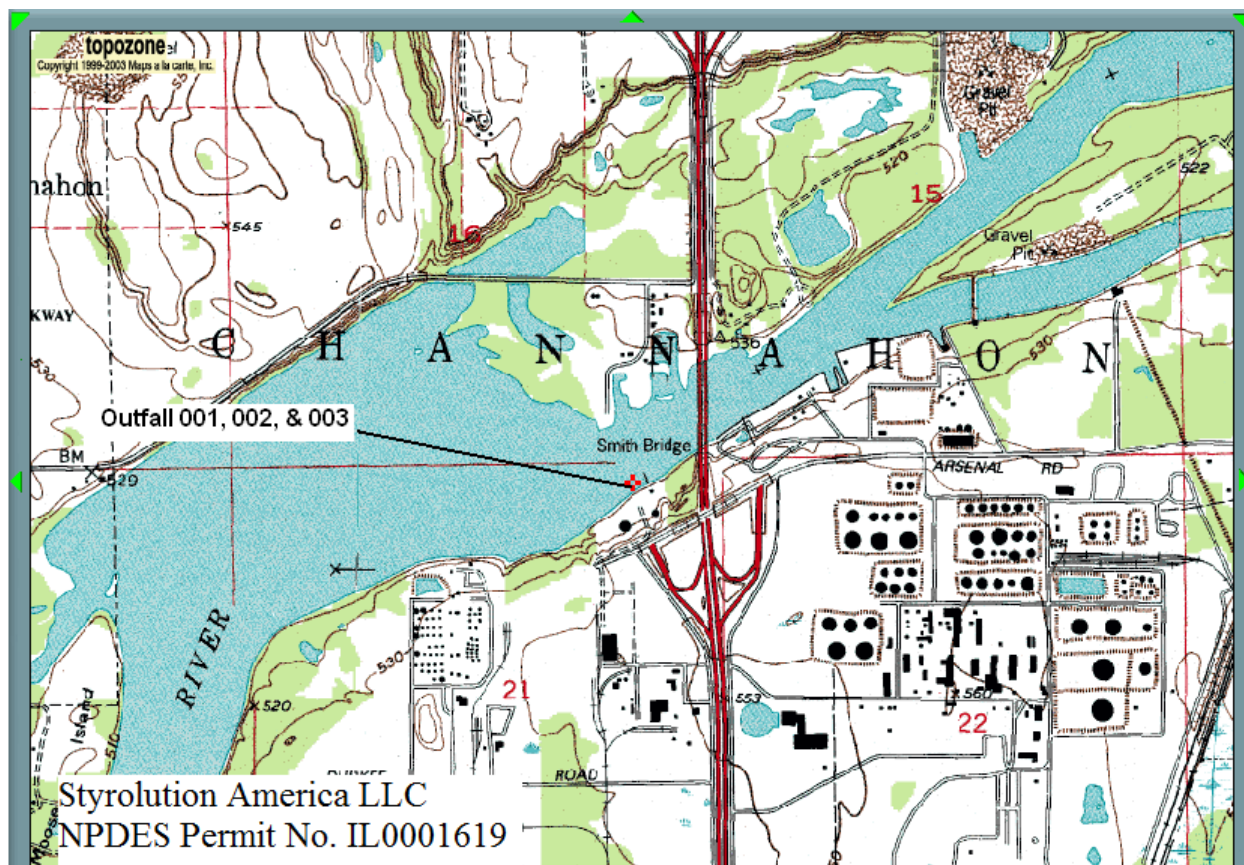
- A. Load limit calculations for the following pollutant parameters were based on a design average flow of 0.18 MGD and a design maximum flow of 0.4 MGD and using the formula of average or maximum flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day): Iron (Total), Oil and Grease, BOD₅, Total, Suspended Solids, Benzene, Phenol, Ethylbenzene, Toluene, Chromium (Total), Copper (Total), Lead (Total), Nickel (Total), and Cyanide (Total).
- B. Load limit calculations for the following pollutant parameters were based on an average flow of 0.072966 MGD and using the formula of average flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day) for all pollutant parameters regulated under 40 CFR 414.91 except for metals
- C. Load limit calculations for the following pollutant parameters were based on an average flow of 0.015643 MGD and using the formula of average flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day): Chromium (Total), Copper (Total), Cyanide (Total), Lead (Total), and Nickel (Total)
- D. BOD₅ load limits were calculated utilizing flows from the process wastewater and process area stormwater x 40 CFR 414.41 concentration limits x 8.34 plus flows from sanitary waste x State Limits in 35 IAC 304.120 x 8.34
- Average Limit: $0.072966 \text{ MGD} \times 24 \text{ mg/l} \times 8.34 + 0.002004 \text{ MGD} \times 30 \text{ mg/l} \times 8.34 = 15 \text{ lbs/day}$
Maximum Limit: $0.072966 \text{ MGD} \times 64 \text{ mg/l} \times 8.34 + 0.002004 \text{ MGD} \times 60 \text{ mg/l} \times 8.34 = 40 \text{ lbs/day}$
- E. Total Suspended Solids load limits were calculated utilizing flows from the process wastewater and process area stormwater x 40 CFR 414.41 concentration limits x 8.34 plus flows from sanitary waste and utility water x State Limits in 35 IAC 304.120 x 8.34
- Average Limit: $0.072966 \text{ MGD} \times 40 \text{ mg/l} \times 8.34 + 0.017237 \text{ MGD} \times 30 \text{ mg/l} \times 8.34 = 29 \text{ lbs/day}$
Maximum Limit: $0.072966 \text{ MGD} \times 130 \text{ mg/l} \times 8.34 + 0.017237 \text{ MGD} \times 60 \text{ mg/l} \times 8.34 = 88 \text{ lbs/day}$
- F. Zinc (Total) load limits were calculated utilizing metal bearing flows from the process x 40 CFR 414.91 concentration limits x 8.34 + all other flows (except stormwater) x credit for incoming water x 8.34
- Average Limit: $0.015643 \text{ MGD} \times 1.05 \text{ mg/l} \times 8.34 + 0.089401 \text{ MGD} \times 0.36 \text{ mg/l} \times 8.34 = 0.405 \text{ lbs/day}$
Maximum Limit: $0.015643 \text{ MGD} \times 2.61 \text{ mg/l} \times 8.34 + 0.089401 \text{ MGD} \times 0.36 \text{ mg/l} \times 8.34 = 0.609 \text{ lbs/day}$

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

The following explain the conditions of the proposed permit:

The Special Conditions clarify flow, pH, monitoring location, fecal coliform, discharging monitoring report submission, additives, and stormwater.

A credit was given for zinc because the incoming well water contains zinc.



NPDES Permit No. IL0001619

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:

Styrolution America LLC
25846 S. Frontage Road
Channahon, Illinois 60410

Styrolution America LLC
25846 S. Frontage Road
Channahon, Illinois 60410
(Will County)

Discharge Number and Name:

Receiving Waters:

001 Treated Wastewaters
002 Stormwater and Firewater
003 Stormwater and Firewater

Des Plaines River
Des Plaines River
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:LRL:12030701.daa

NPDES Permit No. IL0001619

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 DAF (DMF)		CONCENTRATION LIMITS mg/l			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
<u>Outfall 001 – Treated Wastewaters</u> (DAF = 0.122 MGD) The discharge consists of the following: 1. Treated Process 2. Utilities 3. Strand Bath 4. Wash Water 5. Stormwater** 6. Sanitary Water						
Flow (MGD)	See Special Condition 1.				Daily	Continuous
pH	See Special Condition 2.				1/Week	Grab
Fecal Coliform	See Special Condition 3.				1/Week	Grab
BOD ₅	15	40	24	64	1/Week	Composite
Total Suspended Solids	29	89	30	60	1/Week	Composite
Iron (Total)	3	7.6	2	4	1/Week	Composite
Oil and Grease	23	57	15	30	1/Week	*
Zinc	0.405	0.609	1	2	1/Week	Composite
Acrylonitrile	0.058	0.147	0.096	0.242	1/Year	Grab
Acenaphthene	0.013	0.036	0.022	0.059	1/Year	Grab
Benzene	0.023	0.083	0.037	0.136	1/Year	Grab
Carbon Tetrachloride	0.011	0.023	0.018	0.038	1/Year	Grab
Chlorobenzene	0.009	0.017	0.015	0.028	1/Year	Grab
1,2,4-Trichlorobenzene	0.041	0.085	0.068	0.14	1/Year	Grab
Hexachlorobenzene	0.009	0.017	0.015	0.028	1/Year	Grab
1,2-Dichloroethane	0.041	0.128	0.068	0.211	1/Year	Grab
1,1,1-Trichloroethane	0.013	0.033	0.021	0.054	1/Year	Grab
Hexachloroethane	0.013	0.033	0.021	0.054	1/Year	Grab
1,1-Dichloroethane	0.013	0.036	0.022	0.059	1/Year	Grab
1,1,2-Trichloroethane	0.013	0.033	0.021	0.054	1/Year	Grab
Chloroethane	0.063	0.163	0.104	0.268	1/Year	Grab
Chloroform	0.013	0.028	0.021	0.046	1/Year	Grab
2-Chlorophenol	0.019	0.065	0.031	0.098	1/Year	Grab

NPDES Permit No. IL0001619

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:

PARAMETER	LOAD LIMITS lbs/day <u>DAF (DMF)</u>		CONCENTRATION <u>LIMITS mg/l</u>		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
<u>Outfall 001 cont.:</u>						
1,2-Dichlorobenzene	0.047	0.099	0.077	0.163	1/Year	Grab
1,3-Dichlorobenzene	0.019	0.027	0.031	0.044	1/Year	Grab
1,4-Dichlorobenzene	0.009	0.017	0.015	0.028	1/Year	Grab
1,1-Dichloroethylene	0.01	0.015	0.016	0.025	1/Year	Grab
1,2-Trans-Dichloroethylene	0.013	0.033	0.021	0.054	1/Year	Grab
2,4-Dichlorophenol	0.024	0.074	0.039	0.112	1/Year	Grab
1,2-Dichloropropane	0.093	0.14	0.153	0.23	1/Year	Grab
1,3-Dichloropropylene	0.018	0.027	0.029	0.044	1/Year	Grab
2,4-Dimethylphenol	0.011	0.022	0.018	0.036	1/Year	Grab
2,4-Dinitrotoluene	0.069	0.173	0.113	0.285	1/Year	Grab
2,6-Dinitrotoluene	0.155	0.39	0.255	0.641	1/Year	Grab
Ethylbenzene	0.019	0.066	0.014	0.15	1/Year	Grab
Fluoranthene	0.015	0.041	0.025	0.068	1/Year	Grab
Methylene Chloride	0.024	0.054	0.04	0.089	1/Year	Grab
Methyl Chloride	0.052	0.116	0.086	0.19	1/Year	Grab
Hexachlorobutadiene	0.012	0.03	0.02	0.049	1/Year	Grab
Naphthalene	0.013	0.036	0.022	0.059	1/Year	Grab
Nitrobenzene	0.016	0.041	0.027	0.068	1/Year	Grab
2-Nitrophenol	0.025	0.042	0.041	0.069	1/Year	Grab
4-Nitrophenol	0.044	0.075	0.072	0.124	1/Year	Grab
2,4-Dinitrophenol	0.043	0.075	0.071	0.123	1/Year	Grab
4,6-Dinitro-o-cresol	0.047	0.169	0.078	0.277	1/Year	Grab
Phenol	0.009	0.016	0.015	0.026	1/Year	Grab
Bis(2-ethylhexyl) Phthalate	0.063	0.17	0.103	0.279	1/Year	Grab
Di-n-butyl Phthalate	0.016	0.035	0.027	0.057	1/Year	Grab
Diethyl Phthalate	0.049	0.124	0.081	0.203	1/Year	Grab
Dimethyl Phthalate	0.012	0.029	0.019	0.047	1/Year	Grab
Benzo(a)anthracene	0.013	0.036	0.022	0.059	1/Year	Grab

NPDES Permit No. IL0001619

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:

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		
<u>Outfall 001 cont.:</u>						
Benzo(a)pyrene	0.014	0.037	0.023	0.061	1/Year	Grab
3,4-Benzofluoranthene	0.014	0.037	0.023	0.061	1/Year	Grab
Benzo(k)fluoranthene	0.013	0.036	0.022	0.059	1/Year	Grab
Chrysene	0.013	0.036	0.022	0.059	1/Year	Grab
Acenaphthylene	0.013	0.036	0.022	0.059	1/Year	Grab
Anthracene	0.013	0.036	0.022	0.059	1/Year	Grab
Fluorene	0.013	0.036	0.022	0.059	1/Year	Grab
Phenanthrene	0.013	0.036	0.022	0.059	1/Year	Grab
Pyrene	0.015	0.041	0.025	0.067	1/Year	Grab
Tetrachloroethylene	0.013	0.034	0.022	0.056	1/Year	Grab
Toluene	0.016	0.049	0.026	0.08	1/Year	Grab
Trichloroethylene	0.013	0.033	0.021	0.054	1/Year	Grab
Vinyl Chloride	0.063	0.163	0.104	0.268	1/Year	Grab
Chromium (Total)	0.145	0.361	1	2	1/Year	Composite
Copper (Total)	0.189	0.493	0.5	1	1/Year	Composite
Cyanide (Total)	0.055	0.157	0.1	0.2	1/Year	Composite
Lead (Total)	0.042	0.09	0.2	0.4	1/Year	Composite
Nickel (Total)	0.22	0.507	1	2	1/Year	Composite
Styrene			Monitor Only		1/Year	Composite
Iron (Dissolved)			Monitor Only		1/Year	Composite
Boron			Monitor Only		1/Year	Composite
* - See Special Condition 4.						
** - See Special Condition 10.						

NPDES Permit No. IL0001619

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:

	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
<u>Outfall 002</u> – Stormwater and Firewater* (Intermittent Discharge)						
Flow (MGD)	See Special Condition 1.				Measure When Discharging	Estimate
Total Suspended Solids			Monitor Only		Measure When Discharging**	Grab
Iron (Total)			Monitor Only		Measure When Discharging**	Grab
* - Special Conditions 9 only applies to stormwater.						
** - Only when discharging firewater.						
<u>Outfall 003</u> – Stormwater and Firewater* (Intermittent Discharge)						
Flow (MGD)	See Special Condition 1.				Measure When Discharging	Estimate
Total Suspended Solids			Monitor Only		Measure When Discharging**	Grab
Iron (Total)			Monitor Only		Measure When Discharging**	Grab
* - Special Conditions 9 only applies to stormwater.						
** - Only when discharging firewater.						

NPDES Permit No. IL0001619

Special Conditions

SPECIAL CONDITION 1. Flow shall be measured in unit of Million Gallons per Day (MGD) and reported as a monthly average and a daily maximum on the 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 daily maximum fecal coliform count shall not exceed 400 per 100 ml. The fecal coliform limits and monitoring requirements will not apply to Outfall 001 during the cold weather months (November 1 through April 30) of each year.

SPECIAL CONDITION 4. The composites for oil, fats, and greases shall consist of sample aliquots of approximately equal volume, a minimum of 100 milliliters, be collected at regular time intervals over an eight-hour period (three aliquots total). A single sample formed by combining all the aliquots, and the solvent rinse of the container, would then be analyzed. The results of the single analysis is then Reported for oil, fats, and grease.

SPECIAL CONDITION 5. 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 6. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.

SPECIAL CONDITION 7. The Agency may modify this permit during its term to incorporate requirements for biological testing of discharges or receiving waters, and to incorporate additional requirements or limitations based on the results of such testing, following public notice and opportunity for hearing.

SPECIAL CONDITION 8. For the purpose of this permit, Outfalls 002 and 003 are limited to stormwater and fire water, free from process and other waste water discharges.

Special Conditions

SPECIAL CONDITION 9. Outfalls 002 and 003

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

A. A storm water pollution prevention plan shall be maintained by the permittee for the storm water associated with industrial activity at this facility. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. The permittee shall modify the plan if substantive changes are made or occur affecting compliance with this condition.

1. Waters not classified as impaired pursuant to Section 303(d) of the Clean Water Act.

Unless otherwise specified by federal regulation, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event.

2. Waters classified as impaired pursuant to Section 303(d) of the Clean Water Act.

For any site which discharges directly to an impaired water identified in the Agency's 303(d) listing, and if any parameter in the subject discharge has been identified as the cause of impairment, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event. If required by federal regulations, the storm water pollution prevention plan shall adhere to a more restrictive design criteria.

B. The operator or owner of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request.

Facilities which discharge to a municipal separate storm sewer system shall also make a copy available to the operator of the municipal system at any reasonable time upon request.

C. The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this condition. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.

D. The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph H of this condition indicates that an amendment is needed. The plan should also be amended if the discharger is in violation of any conditions of this permit, or has not achieved the general objective of controlling pollutants in storm water discharges. Amendments to the plan shall be made within 30 days of any proposed construction or operational changes at the facility, and shall be provided to the Agency for review upon request.

E. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from storm water outfalls at the facility. The plan shall include, at a minimum, the following items:

1. A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate. Any map or portion of map may be withheld for security reasons.
2. A site map showing:
 - i. The storm water conveyance and discharge structures;
 - ii. An outline of the storm water drainage areas for each storm water discharge point;
 - iii. Paved areas and buildings;
 - iv. Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.
 - v. Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.);

NPDES Permit No. IL0001619

Special Conditions

- vi. Surface water locations and/or municipal storm drain locations
 - vii. Areas of existing and potential soil erosion;
 - viii. Vehicle service areas;
 - ix. Material loading, unloading, and access areas.
 - x. Areas under items iv and ix above may be withheld from the site for security reasons.
3. A narrative description of the following:
 - i. The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;
 - ii. Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;
 - iii. Existing structural and non-structural control measures to reduce pollutants in storm water discharges;
 - iv. Industrial storm water discharge treatment facilities;
 - v. Methods of onsite storage and disposal of significant materials.
 4. A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities. Also provide a list of any pollutant that is listed as impaired in the most recent 303(d) report.
 5. An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.
 6. A summary of existing sampling data describing pollutants in storm water discharges.
- F. The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall include:
1. Storm Water Pollution Prevention Personnel - Identification by job titles of the individuals who are responsible for developing, implementing, and revising the plan.
 2. Preventive Maintenance - Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.
 3. Good Housekeeping - Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.
 4. Spill Prevention and Response - Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill cleanup equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.
 5. Storm Water Management Practices - Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:
 - i. Containment - Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff. To the maximum extent practicable storm water discharged from any area where material handling equipment or activities, raw material, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water should not enter vegetated areas or surface waters or infiltrate into the soil unless adequate treatment is provided.

NPDES Permit No. IL0001619

Special Conditions

- ii. Oil & Grease Separation - Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges.
 - iii. Debris & Sediment Control - Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges.
 - iv. Waste Chemical Disposal - Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges.
 - v. Storm Water Diversion - Storm water diversion away from materials manufacturing, storage and other areas of potential storm water contamination. Minimize the quantity of storm water entering areas where material handling equipment of activities, raw material, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water using green infrastructure techniques where practicable in the areas outside the exposure area, and otherwise divert storm water away from exposure area.
 - vi. Covered Storage or Manufacturing Areas - Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.
 - vii. Storm Water Reduction - Install vegetation on roofs of buildings within adjacent to the exposure area to detain and evapotranspire runoff where precipitation falling on the roof is not exposed to contaminants, to minimize storm water runoff; capture storm water in devices that minimize the amount of storm water runoff and use this water as appropriate based on quality.
6. Sediment and Erosion Prevention - The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion. The plan shall describe measures to limit erosion.
7. Employee Training - Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.
8. Inspection Procedures - Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.
- G. Non-Storm Water Discharge - The plan shall include a certification that the discharge has been tested or evaluated for the presence of non-storm water discharge. The certification shall include a description of any test for the presence of non-storm water discharges, the methods used, the dates of the testing, and any onsite drainage points that were observed during the testing. Any facility that is unable to provide this certification must describe the procedure of any test conducted for the presence of non-storm water discharges, the test results, potential sources of non-storm water discharges to the storm sewer, and why adequate tests for such storm sewers were not feasible.
- H. Quarterly Visual Observation of Discharges - The requirements and procedures for quarterly visual observations are applicable to all outfalls covered by this condition.
- 1. You must perform and document a quarterly visual observation of a storm water discharge associated with industrial activity from each outfall. The visual observation must be made during daylight hours. If no storm event resulted in runoff during daylight hours from the facility during a monitoring quarter, you are excused from the visual observations requirement for that quarter, provided you document in your records that no runoff occurred. You must sign and certify the document.
 - 2. Your visual observation must be made on samples collected as soon as practical, but not to exceed 1 hour or when the runoff or snow melt begins discharging from your facility. All samples must be collected from a storm event discharge that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measureable (greater than 0.1 inch rainfall) storm event. The observation must document: color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. If visual observations indicate any unnatural color, odor, turbidity, floatable material, oil sheen or other indicators of storm water pollution, the permittee shall obtain a sample and monitor for the parameter or the list of pollutants in Part E.4.
 - 3. You must maintain your visual observation reports onsite with the SWPPP. The report must include the observation date and time, inspection personnel, nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.

NPDES Permit No. IL0001619

Special Conditions

4. You may exercise a waiver of the visual observation requirement at a facility that is inactive or unstaffed, as long as there are no industrial materials or activities exposed to storm water. If you exercise this waiver, you must maintain a certification with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to storm water.
 5. Representative Outfalls - If your facility has two or more outfalls that you believe discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, you may conduct visual observations of the discharge at just one of the outfalls and report that the results also apply to the substantially identical outfall(s).
 6. The visual observation documentation shall be made available to the Agency and general public upon written request.
- I. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.
 - J. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated there under, and Best Management Programs under 40 CFR 125.100.
 - K. The plan is considered a report that shall be available to the public at any reasonable time upon request.
 - L. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.
 - M. Facilities which discharge storm water associated with industrial activity to municipal separate storm sewers may also be subject to additional requirement imposed by the operator of the municipal system

Construction Authorization

Authorization is hereby granted to construct treatment works and related equipment that may be required by the Storm Water Pollution Prevention Plan developed pursuant to this permit.

This Authorization is issued subject to the following condition(s).

- N. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee there upon waives all rights there under.
- O. The issuance of this authorization (a) does not release the permittee from any liability for damage to persons or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (b) does not take into consideration the structural stability of any units or part of this project; and (c) does not release the permittee from compliance with other applicable statutes of the State of Illinois, or other applicable local law, regulations or ordinances.
- P. Plans and specifications of all treatment equipment being included as part of the stormwater management practice shall be included in the SWPPP.
- Q. Construction activities which result from treatment equipment installation, including clearing, grading and excavation activities which result in the disturbance of one acre or more of land area, are not covered by this authorization. The permittee shall contact the IEPA regarding the required permit(s).

REPORTING

- R. The facility shall submit an electronic copy of the annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part I of this condition. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s). The annual inspection report is considered a public document that shall be available at any reasonable time upon request.

NPDES Permit No. IL0001619

Special Conditions

- S. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.
- T. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.
- U. The permittee shall retain the annual inspection report on file at least 3 years. This period may be extended by request of the Illinois Environmental Protection Agency at any time.

Annual inspection reports shall be mailed to the following address:

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section
Annual Inspection Report
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

- V. The permittee shall notify any regulated small municipal separate storm sewer owner (MS4 Community) that they maintain coverage under an individual NPDES permit. The permittee shall submit any SWPPP or any annual inspection to the MS4 community upon request by the MS4 community.

SPECIAL CONDITION 10. The Agency has determined that the effluent limitations for outfall 001 contained in this permit constitute BAT/BCT for stormwater which is treated in the existing treatment facilities for purposes of this permit reissuance, and no pollution prevention plan will be required for such stormwater. In addition to the chemical specific monitoring required elsewhere in this permit, the permittee shall conduct an annual inspection of the facility site to identify areas contributing to a stormwater discharge associated with industrial activity, and determine whether any facility modifications have occurred which result in previously-treated stormwater discharges no longer receiving treatment. If any such discharges are identified the permittee shall request a modification of this permit within 30 days after the inspection. Records of the annual inspection shall be retained by the permittee for the term of this permit and be made available to the Agency on request.

SPECIAL CONDITION 11. 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 12. This permit authorizes the use of water treatment additives that were requested as part of this renewal. The use of any new additives such as chlorine or bromine, or change in those previously approved by the Agency, or if the permittee increases the feed rate or quantity of the additives used beyond what has been approved by the Agency, the permittee shall request a modification of this permit in accordance with the Standard Conditions - Attachment H.

Public Notice of Draft Permit

Public Notice Number LRL:12030701.daa is hereby given by Illinois EPA, Division of Water Pollution Control, Permit Section, 1021 North Grand Avenue East, Post Office Box 19276, Springfield, Illinois 62794-9276 (herein Agency) that a draft modified National Pollutant Discharge Elimination System (NPDES) Permit Number IL0001619 has been prepared under 40 CFR 124.6(d) for Styrolution America LLC, 25846 S.W. Frontage Road, Channahon, Illinois 60410 for discharge into Des Plaines River from the Styrolution America LLC, 25846 S.W. Frontage Road, Channahon, Illinois 60410 (Will County). The applicant is engaged in the production of general purpose and high impact polystyrene (SIC 2821). Plant operation result in an average discharge of 0.122 MGD of treated process, utilities, strand bath, wash water, stormwater, and sanitary waste waters from outfall 001, an intermittent discharge of stormwater and firewater from outfall 001, an intermittent discharge of stormwater and firewater from outfall 002, and an intermittent discharge of stormwater and firewater from outfall 003.

The application, draft modified permit and other documents are available for inspection and may be copied at the Agency between 9:30 A.M. and 3:30 P.M. Monday through Friday. A Fact Sheet containing more detailed information is available at no charge. For further information, call the Public Notice Clerk at 217/782-0610.

Interested persons are invited to submit written comments on the draft modified permit to the Agency at the above address. The NPDES Permit and Joint Public Notice numbers must appear on each comment page. All comments received by the Agency not later than 30 days from the date of this publication shall be considered in making the final decision regarding permit issuance.

Any interested person may submit written request for a public hearing on the draft modified permit, stating their name and address, the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to these issues in the hearing. Such requests must be received by the Agency not later than 30 days from the date of this publication.

If written comments and/or requests indicate a significant degree of public interest in the draft modified permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 30 days before any public hearing.

SAK:LRL:12030701.daa