

NPDES Permit No. IL0074268
Notice No. LRL:06100601.daa

Public Notice Beginning Date: **January 27, 2012**

Public Notice Ending Date: **February 27, 2012**

National Pollutant Discharge Elimination System (NPDES)
Permit Program

Draft Modified 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:

Holland Energy, LLC
722 North High School Road
Indianapolis, IN 46214

Name and Address of Facility:

Holland Energy Facility
RR2, 270-A
Beecher City, Illinois 62414-0065
(Shelby 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 regard 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 operation of a 640 MW combined cycle, gas turbine electric generation plant (SIC 4911). Plant operation results in an average discharge of 1.42 MGD of cooling tower blowdown, evaporative cooler blowdown, demineralizer regenerate, filter backwash, and turbine wash from outfall 001, 0.105 MGD of hydrostatic test water, stormwater runoff, and water supply line cleaning water from outfall 002, and 0.1 MGD of hydrostatic test water and stormwater runoff from outfall 003.

The following modification is proposed:

Special Conditions 13 and 14 were revised.

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

Outfall	Receiving Stream	Latitude		Longitude		Stream Classification	Biological Stream Characterization
001	Kaskaskia River	39° 15' 18"	North	88° 48' 49"	West	General Use	B
002	Unnamed Tributary to Brush Creek	39° 13' 28"	North	88° 45' 36"	West	General Use	Not Rated
003	Unnamed Tributary to Brush Creek	39° 13' 20"	North	88° 45' 30"	West	General Use	Not Rated

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

The stream segment receiving the discharge from outfalls 002 and 003 is not on the 2010 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 stream segment O-10 receiving the discharge from outfall 001 is on the 2010 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:

Designated Use

Fish Consumption and Primary Contact Recreation

Potential Cause

Mercury and Fecal Coliform

The discharges 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	
<u>Outfall 001:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Temperature						35 IAC 302.211
Total Residual Chlorine					0.05	40 CFR 125.3 & 35 IAC 302.208
Total Suspended Solids				15	30	35 IAC 304.124
Oil and Grease				15	20	40 CFR 423.12
Zinc (Total)				1.0	1.0	40 CFR 423.12
Chromium (Total)				0.2	0.2	40 CFR 423.12
Phosphorous				Monitor Only		
Ammonia Nitrogen				Monitor Only		
Chloride				Monitor Only		
126 Priority Pollutants				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>Outfall 002:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Total Suspended Solids				15	30	35 IAC 304.124
Iron (Total)				2	4	35 IAC 304.124
Oil and Grease				15	30	35 IAC 304.124
<u>Outfall 003:</u>						
Flow						
pH				6 – 9 s.u.		35 IAC 304.125
Total Suspended Solids				15	30	35 IAC 304.124
Iron (Total)				2	4	35 IAC 304.124
Oil and Grease				15	30	35 IAC 304.124

The following explain the conditions of the proposed permit:

The Special Conditions clarify flow, operation during low flow conditions, pH, monitoring location, temperature, discharge monitoring report submission, 126 priority pollutants, total residual chlorine, polychlorinate biphenyl discharge, stormwater, additives, biomonitoring, and alternative water supply requirements.

NPDES Permit No. IL0074268

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

Modified (NPDES) Permit

Expiration Date: April 30, 2016

Issue Date: April 18, 2011
Effective Date: May 1, 2011
Modification Date:

Name and Address of Permittee:

Holland Energy, LLC
722 North High School Road
Indianapolis, IN 46214

Facility Name and Address:

Holland Energy Facility
RR2, 270-A
Beecher City, Illinois 62414-0065
(Shelby County)

Discharge Number and Name:

001 Cooling Tower Blowdown, Evaporative Cooler Blowdown,
Demineralizer Regenerate, Filter Backwash, and Turbine
Wash
002 North Stormwater Basin
003 South Stormwater Basin

Receiving Waters:

Kaskaskia River
Unnamed Tributary to Brush Creek
Unnamed Tributary to Brush Creek

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:06100601.daa

NPDES Permit No. IL0074268

Effluent Limitations and Monitoring

1. From the modification 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</u> – Cooling Tower Blowdown, Evaporative Cooler Blowdown, Demineralizer Regenerate, Filter Backwash, and Turbine Wash (Average Flow = 1.42 MGD)						
Flow (MGD)	See Special Condition 1.				Continuous**	
pH	See Special Condition 3.				1/Month	Grab
Temperature	See Special Condition 6.				Continuous**	
Total Residual Chlorine	See Special Condition 9.			0.05	1/Month	Grab
Total Suspended Solids			15	30	1/Month	Grab
Oil and Grease			15	20	1/Month	Grab
Zinc (Total)			1.0	1.0	1/Quarter*	Grab
Chromium (Total)			0.2	0.2	1/Quarter*	Grab
Phosphorus			Monitor Only		1/Month	Grab
Ammonia Nitrogen	See Special Condition 16.		Monitor Only		1/Month	Grab
Chloride	See Special Condition 17.		Monitor Only		1/Month	Grab
126 Priority Pollutants	See Special Condition 8.		Monitor Only		1/Year	Grab
* - See Special Condition 18.						
** - When Discharging.						

NPDES Permit No. IL0074268

Effluent Limitations and Monitoring

1. From the modification 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 002 – North Stormwater Basin</u> (Average Flow = 0.105 MGD) The discharge consists of the following: <ol style="list-style-type: none"> 1. Hydrostatic Test Water 2. Water Supply Line Cleaning Water 3. Stormwater Runoff* 						
Flow (MGD)	See Special Condition 1.				Measure When Monitoring	
pH	See Special Condition 3.				Daily When Discharging**	Grab
Total Suspended Solids			15	30	Daily When Discharging**	Grab
Iron (Total)			2	4	Daily When Discharging**	Grab
Oil and Grease			15	30	Daily When Discharging**	Grab
* - See Special Condition 12. ** - Monitoring requirements and limitations apply only when discharging hydrostatic test water and/or water supply line cleaning water.						
<u>Outfall 003 –South Stormwater Basin</u> (Average Flow = 0.1 MGD) The discharge consists of the following: <ol style="list-style-type: none"> 1. Hydrostatic Test Water 2. Stormwater Runoff* 						
Flow (MGD)	See Special Condition 1.				Measure When Monitoring	
pH	See Special Condition 3.				Daily When Discharging**	Grab
Total Suspended Solids			15	30	Daily When Discharging**	Grab
Iron (Total)			2	4	Daily When Discharging**	Grab
Oil and Grease			15	30	Daily When Discharging**	Grab
* - See Special Condition 12. ** - Monitoring requirements and limitations apply only when discharging hydrostatic test water.						

NPDES Permit No. IL0074268

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 Discharge Monitoring Report.

SPECIAL CONDITION 2. This permit is written with the expressed understanding that there will be no discharge from this facility during extreme low river flow conditions. Extreme low river flow is defined as those times when flow in the Kaskaskia River drops below 10 cubic feet per second immediately upstream of the outfall.

SPECIAL CONDITION 3. 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 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. A thermal mixing zone is recognized from Outfall 001 downstream for 22 feet in the Kaskaskia River and for 25% of the river width. Continuous temperature readings must be collected at the point 22 feet downstream of the outfall at a point midway in the 25% of stream width beginning at the east bank. The following limits must be met at this point:

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

	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
°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 rise in temperature at the edge of the mixing zone may not exceed the river temperature measured at the river water intake point by more than five degrees F.
- D. The monthly maximum temperature at the edge of the mixing zone must be reported on the DMR form along with the number of hours temperatures exceeded the values in the above table and the accumulated time that the temperature at the edge of the mixing zone exceeded the river temperature at the intake by more than five degrees F.
- E. In the event that the facilities thermocouple used to measure the mixed stream temperature should fail, the following equation may be used to determine the mixed stream temperature:

$$TMR = TU + [(QC(TC-TU))/Stream\ Flow]$$

TMR = mixed river temperature (°F)

TU = upstream river temperature (°F)

TC = effluent temperature (°F)

QC = effluent flow (MGD)

Stream Flow = one half the daily flow value of the receiving stream in MGD

The permittee shall notify the Agency when they discover a failure in the thermocouple that would result in the use of this equation. The permittee shall repair the thermocouple in a timely fashion and use of this equation may be suspended should the Agency determine that the facility has not repaired the thermocouple in a reasonable amount of time.

NPDES Permit No. IL0074268

Special Conditions

SPECIAL CONDITION 7. 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. There shall be no discharge of the 126 priority pollutants, except Chromium (Total) and Zinc (Total) from outfall 001. The discharge from Outfall 001 shall be monitored once per year for the metals and phenols, as found at 35 Ill. Adm. Code Section 304.124, as well as the 126 priority pollutants listed in 40 CFR 423 Appendix A. All analysis shall be completed using an appropriate method contained in 40 CFR 136 on other USEPA approved methods. The results of this yearly monitoring shall be submitted with the December Discharge Monitoring Report.

SPECIAL CONDITION 9. 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. Any analytical variability of the method used shall be considered when determining the accuracy and precision of the results obtained.

SPECIAL CONDITION 10. In the event that the permittee shall require the use of water treatment chemicals, other than those proposed in the application for this permit, the permittee shall notify the Agency in writing in accordance with the Standard Conditions, Attachment H. The permit may then be modified or revised following public notice and opportunity for hearing.

SPECIAL CONDITION 11. There shall be no discharge of polychlorinated biphenyl (PCB) compounds such as those commonly used for transformer fluids.

SPECIAL CONDITION 12.

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.
- B. The owner or operator of the facility shall make a copy of the plan available to the Agency 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 G 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 the shortest reasonable period of time, 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,

NPDES Permit No. IL0074268

Special Conditions

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.
 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.);
 - 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.
 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.
 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.

NPDES Permit No. IL0074268

Special Conditions

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 clean up 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;
 - 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;
 - vi. Covered Storage or Manufacturing Areas - Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.
 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 and 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. 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.
- H. 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 thereunder, and Best Management Programs under 40 CFR 125.100.
- I. The plan is considered a report that shall be available to the public under Section 308(b) of the CWA. The permittee may claim portions of the plan as confidential business information, including any portion describing facility security measures.
- J. 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.

Construction Authorization

- K. 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).

NPDES Permit No. IL0074268

Special Conditions

1. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee there upon waives all rights thereunder.
2. 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.
3. Plans and specifications of all treatment equipment being included as part of the stormwater management practice shall be included in the SWPPP.
4. 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

- L. The facility shall submit an annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part G of the Storm Water Pollution Prevention Plan of this permit. 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).
- M. 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.
- N. 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
- O. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.

SPECIAL CONDITION 13. The Permittee shall conduct biomonitoring of effluent from Outfall 001. Testing must be conducted once per year for two years beginning the first summer (July 1 through September 30) after the modification date of the Permit.

Biomonitoring:

1. Toxicity Test – Acute and chronic whole effluent toxicity tests shall be run on fatmucket (*Lampsilis siliquoidea*). Procurement and testing of organisms must be consistent with Standard Guide for Conducting Laboratory Toxicity Tests with Freshwater Mussels (ASTM E2455-06). Guidelines for measuring effluent toxicity must be consistent with Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (Fifth Ed.) EPA/821-R-02-012 and Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms (Fourth Ed.) EPA/821-R-02-013. The following tests are required:
 - a. An acute (4 day) static-renewal or flow-through renewal toxicity test using newly transformed juvenile fatmucket (*Lampsilis siliquoidea*), with survival being the endpoint; and
 - b. A chronic (21-28 day) static-renewal or flow-through renewal toxicity test using 2-4 month old juvenile fatmucket (*Lampsilis siliquoidea*), with survival and growth (shell length) being the endpoints.
2. Testing Conditions – The above test shall be conducted using 8-hour composite effluent samples discharged under normal operating conditions. Test solutions shall be renewed every 48 hours in acute tests, and every Monday, Wednesday, and Friday in chronic tests. Upstream water of the Kaskaskia River is to be supplied to conduct serial dilutions of 6.25%, 12.5%, 25%, 50%, and 100% effluent.

NPDES Permit No. IL0074268

Special Conditions

3. Reporting – Results shall be reported according to EPA/821-R-02-012, Section 12, Report Preparation and shall be submitted to IEPA, Bureau of Water, Compliance Assurance Section within one week of receipt from the laboratory. Reports are due to the IEPA no later than 3 months following the test date.
4. Toxicity Assessment – Should the review of the results of the biomonitoring program identify toxicity, the IEPA may require that the Permittee prepare a plan for toxicity reduction evaluation and identification. This plan shall be developed in accordance with Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants, EPA/833B-99/002, and shall include an evaluation to determine which chemicals have a potential for being discharged in the plant wastewater, a monitoring program to determine their presence or absence and to identify other compounds which are not being removed by treatment, and other measures as appropriate. The Permittee shall submit to the IEPA its plan for toxicity reduction evaluation within ninety (90) days following notification by the IEPA. The Permittee shall implement the plan within ninety (90) days or other such date as contained in a notification letter received from the IEPA.

The IEPA may modify this Permit during its term to incorporate additional requirements or limitations based on the results of the biomonitoring. In addition, after review of the monitoring results, the IEPA may modify this Permit to include numerical limitations for specific toxic pollutants. Modifications under this condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 14. The Permittee shall prepare a monitoring plan for conducting mussel surveys in the Kaskaskia River and must submit the plan to IEPA for review and approval within 45 days after the modification date of the Permit. If IEPA is unable to approve the monitoring plan, IEPA will send a letter rejecting the monitoring plan. The Permittee shall submit a revised, approvable monitoring plan within 15 days after IEPA rejection.

The Permittee shall implement the approved monitoring plan during a defined low flow condition that occurs between July 1 and October 31. The mussel surveys shall be conducted annually beginning the first July – October sampling cycle after plan approval and must repeat previous mussel surveys conducted during the previous permit cycle.

SPECIAL CONDITION 15. The water supply necessary for the operation of this facility is to be obtained from Lake Shelbyville via the Kaskaskia River, through a water supply agreement between the permittee and the Illinois Department of Natural Resources. While an alternate water supply is not prohibited by this special condition, it may require the modification of this permit. The Agency must be notified in writing prior to use of an alternate water supply. The Agency will modify the permit following public notice and opportunity for hearing.

SPECIAL CONDITION 16. The permittee shall monitor Ammonia as N and report the concentration in mg/L being discharged. The sample frequency shall be once a month. The results of the monthly sampling shall be submitted with the monthly Discharge Monitoring Report. After two years the permittee may request a modification to the permit to remove the ammonia sampling if justified by the sampling results.

SPECIAL CONDITION 17. Chloride shall be monitored on a monthly basis for a year. Upon collection of the 12 monthly samples, and upon written notification to the Agency the sampling may cease. The Agency may modify the permit based on the results of the sampling data to include further monitoring or limitations following public notice and opportunity for comment.

SPECIAL CONDITION 18. Quarterly sampling results shall be submitted during the months of April, July, October, and January for the preceding three month period.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

PAT QUINN, GOVERNOR

JOHN J. KIM, INTERIM DIRECTOR