



Barbara Jeffers, MPH  
Executive Director

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1240 N. Highland Avenue  
Aurora, Illinois 60506  
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Elgin, Illinois 60123  
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### Memorandum

TO: Keith Berkhout, Kane County Building & Zoning Division

CC: Mark VanKerkhoff, Director, Kane County Development and Community Services Department

Ken Anderson, Director, Kane County Environmental & Water Resources Division

FROM: Julie Wiegel, LEHP, Assistant Director of Environmental Health, Kane County Health Department. *JW*

DATE: December 7, 2015

RE: Zoning Petition #4364 – 41W400 Silver Glen Road

The Kane County Health Department has reviewed the above petition and has the following comments.

#### Potable Water System

Provide a copy of the current Illinois Environmental Protection Agency (IEPA) permit to the County. In addition, please provide a copy of the most recent IEPA inspection report for the potable water system to the Health Department.

#### Wastewater System

Provide a copy of the current IEPA permit to the Health Department.

#### Food Service

A Food Service Establishment permit is required for any food service establishment where food is prepared and intended for, though not limited to, individual portion service, and includes the site at which individual portions are provided.

An onsite consultation with Kane County Health Department staff will be required to evaluate the current facilities and identify any necessary changes or



**updates needed prior to permitting. A plan review is required for any food service area renovations.**

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WATER POLLUTION CONTROL PERMIT

LOG NUMBERS: 1163-10

PERMIT NO.: 2011-GO-1163

FINAL PLANS, SPECIFICATIONS, APPLICATION  
AND SUPPORTING DOCUMENTS

PREPARED BY: Foulkes Utility Resources, Inc.

DATE ISSUED: March 29, 2011

SUBJECT: GLENWOOD SCHOOL- STP and Spray Irrigation

PERMITTEE TO OWN AND OPERATE

Glenwood School for Boys and Girls  
500 West 187<sup>th</sup> Street  
Glenwood, IL 60425

Permit is hereby granted to the above designated permittee to construct, own and operate water pollution control facilities described as follows:

A. Sewage Treatment Facility

A wastewater treatment facility consisting of a 2 cell mechanically aerated lagoon system with turbo-disc filter and chlorination followed by an irrigation system. The first cell contains 88,600 ft<sup>3</sup> and the second cell has 256,833 ft<sup>3</sup>. The design PE is for 160 with a design average flow to the lagoons of 16,000 GPD.

B. Irrigation System

An irrigation system consisting of pop-up nozzles for land application of wastewater effluent on approximately 4.1 acres of landscaped areas around the administration and school buildings with average weekly application rate of approximately 1.5 inches per week. The irrigation system also includes four monitoring wells in order to sample groundwater quality.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplemental Permit.

This Permit renews and replaces Permit Number 2005-GO-5042 which was previously issued for the herein permitted facilities.

SPECIAL CONDITION 1: An irrigation area with drainage tile cannot be operated when the water table level is above the invert of the drainage tile unless the crown of the tile is at least 4 feet from the soil surface.

SPECIAL CONDITION 2: The operation of this slow rate land application system shall be under a certified operator as required under Title 35, Subtitle C, Chapter 1, Part 312-Treatment Plant Operator Certification. This facility, which includes the wastewater treatment plant, irrigation pumps, and land irrigation area(s) shall be under the exclusive control of the certified operator. Control of the irrigation system by anyone other than the certified operator shall be a violation of

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THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

SAK:GY :j:\docs\permits\statecon\ylma\1163-10.docx

DIVISION OF WATER POLLUTION CONTROL

cc: EPA-Des Plaines FOS  
Foulkes Utility Resources, Inc.  
Glenwood School for Boys and Girls  
Records - Municipal  
Binds

  
Alan Keller, P.E.  
Manager, Permit Section

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
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this permit.

SPECIAL CONDITION 3: Storage of wastewater must be provided when groundwater or saturated soil conditions do not permit irrigation.

SPECIAL CONDITION 4: The land irrigation system shall be operated at an average weekly application rate of 1.50 inches with the following maximum rates depending upon climatic conditions:

Maximum hour - 0.25 inches

Maximum day - 1.00 inches

Maximum week - 3.00 inches

Any precipitation received during the 24 hour period prior to irrigation shall be subtracted from the 1.0 inch maximum day rate to determine the maximum day application rate that can be applied.

SPECIAL CONDITION 5: The operational portion of this permit expires on February 29, 2016 and is subject to renewal at that time.

SPECIAL CONDITION 6: The following monitoring is required:

Parameter	Data	Sample Frequency
Influent Flow	Monthly Avg., Daily Max. (mgd)	Continuous
Lagoons	Water Level	Weekly
Groundwater		
1. Nitrate	Conc. (mg/L)	Quarterly
2. Nitrite	Conc. (mg/L)	Quarterly
3. NH <sub>3</sub>	Conc. (mg/L)	Quarterly
4. Chloride	Conc. (mg/L)	Quarterly
5. Sulfates	Conc. (mg/L)	Quarterly
6. pH	Units	Quarterly
7. Total Dissolved Solids	Conc. (mg/L)	Quarterly
8. Phosphate	Conc. (mg/L)	Quarterly
9. Fecal Coliform	#/ 100 mL	Quarterly

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Chlorine Residual of Wastewater Effluent Applied to Land	Conc. (mg/L)	Daily
Wastewater Effluent Applied to Land	Inches/day	Daily

Quarterly reports shall be submitted to:

Manager, Region 2  
Field Operations Section DWPC  
Illinois Environmental Protection Agency  
9511 West Harrison Street  
Des Plaines, Illinois 60016

These reports should be received on January 15, April 15, July 15, and October 15 each year.

A copy shall also be submitted to:

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Permit Section  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62704-9276  
(217) 782-0610

**SPECIAL CONDITION 7:** The spray irrigation system shall not be operated when the water table in the irrigation area is within 4 feet of the soil surface. A 4 feet layer of soil or more must be maintained in an aerobic condition prior to spray irrigation. The monitoring wells must be monitored for ground water level at the beginning of each irrigation week and the groundwater levels recorded.

**SPECIAL CONDITION 8:**

- A. Treated wastewater shall be applied to sites within the following guidelines:
1. It shall not be applied to sites during precipitation.
  2. It shall not be applied to sites which are saturated or with ponded water.
  3. It shall not be applied to ice or snow covered sites or when the ground is frozen.
  4. It shall not be applied when winds exceed 15 mph.
- B. It is recommended that treated wastewater not be applied to the site when precipitation is imminent.
- C. Treated wastewater shall not be applied to land which lies within 200 feet from surface waters, intermittent streams, wells or other water supplies.

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SPECIAL CONDITION 9: The outer edge of the area wetted by the spray mist shall not be closer than 200 feet from any existing or proposed potable water supply well.

SPECIAL CONDITION 10: This permit is issued with the expressed understanding that there shall be no surface discharge from these facilities. Should any such discharge be anticipated, the permittee shall apply for an NPDES permit at least 180 days prior to such discharge.



Midwest Office  
Sheaffer & Roland Inc. | 611 Stevens St | Geneva | IL 60134

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December 14, 2015

Keith Berkhout  
Kane County Building & Zoning Division  
719 Batavia Avenue  
Geneva, IL 60134

**Re:       Zoning Petition #4364**  
**40W400 Silver Glen Road (Glenwood Academy)**  
**Campton Township**

Dear Mr. Berkhout:

We have received the Memorandum dated December 7, 2015 in regards to the above referenced project from Julie Wiegel, LEHP, Assistant Director of Environmental Health, Kane County Health Department. We have listed below the comments along with our responses on the Potable Water System and the Wastewater System.

**Potable Water System**

**Comment 1:**       Provide a copy of the current Illinois Environmental Protection Agency (IEPA) permit to the county. In addition, please provide a copy of the most recent IEPA inspection report for the potable water system to the Health Department.

***Response:***        The water supply, Facility ID IL0890080 is currently on the inactive list due to low population served. Sheaffer & Roland continues to follow routine sample requirements and independent lab testing of the water supply. Discussions with the IEPA indicate that a change of ownership notification will put the facility back on active status. At that time the local IEPA field office will conduct any necessary inspections of the facility.

**Wastewater System**

**Comment 1:**       Provide a copy of the current IEPA permit to the Health Department.

***Response:***        A copy of the current permit is attached.

Keith Berkhout  
December 14, 2015  
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Should you have any questions, please contact us.

Sincerely,  
SHEAFFER & ROLAND, INC.

A handwritten signature in black ink, appearing to read 'Jason C. Fowler', written over a horizontal line.

Jason C. Fowler, P.E.  
Vice President

Enclosure

Cc: Mark VanKerkhoff, Director, Kane County Development & Community Services Dept.  
Ken Anderson, Director, Kane County Environmental & Water Resources Division  
Julie Wiegel, LEHP, Asst. Director of Environmental Health, Kane County Health Dept.