

VILLAGE OF BARRINGTON
NON-POTABLE WATER PROGRAM

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NON-POTABLE WATER PROGRAM

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FACILITY BACKGROUND

The Village of Barrington Wastewater Treatment Facility (WWTF), located in southwestern Lake County, is a class 1 Activated Sludge Facility. Biosolids produced are applied to agricultural land.

Treated effluent is the end product of the biological process. Sanitary sewage consisting of waste streams generated from residential, commercial and industrial discharges is cleaned of solids. The waste stream is cleaned to produce an effluent that meets or exceeds permit limitations set in place by the regulatory agency, the Illinois Environmental Protection Agency (IEPA). This treated effluent is discharged to Flint Creek, a tributary to the Fox River.

Due to the cleanliness of the effluent and its nutrient content, this non-potable water is an excellent source for hydration (landscape watering). To reduce stress on the Village's water system and promote conservation practices, this product is being made available for re-use.

NPDES PERMIT LIMITATIONS

The treated effluent is subject to the terms of an IEPA- issued discharge permit. Our permit requires a high-quality discharge, which limits nutrient loading to Flint Creek. Our permit discharge limitations are as follows:

Total Suspended Solids	12 mg/l, monthly average
Five Day CBOD	10 mg/l, monthly average
Phosphorous	.9 mg/l monthly average
Ammonia Nitrogen (Summer)	3.0 mg/l daily maximum
Ammonia Nitrogen (Winter)	6.2 mg/l daily maximum
Fecal Coliform (Summer)	400 colonies/100 ml sample
pH	within a range of 6.0-9.0 units

As long as the quality of the treated effluent meets these permit requirements, the effluent will remain available for use. Should the effluent fall out of range of any one of these requirements, availability of the treated effluent will cease, until such time the effluent returns to permit compliance.

DEFINITIONS

Administrative Office

The office of the Village of Barrington Public Works Facility, 300 North Raymond Avenue, Barrington, Illinois

Biological

A natural process which uses microscopic plants and animals for the breakdown and removal of pollutants in the cleaning of sanitary sewage.

Influent	A term referring to water flow as it enters a facility, structure or process.
Effluent	A term referring to water flow as it exits a facility, structure or process.
Disinfection	The process of destroying pathogenic or disease-causing organisms.
GPM	An acronym pertaining to flow rate, Gallons Per Minute .
Microorganisms	Microscopic plants and animals too small to be seen without the aid of a microscope.
NPDES	National Pollutant Discharge Elimination System.
Non-Potable Water	Water, which is not intended for the uses of drinking, cooking or washing of one's body. Treated effluent is defined as a non-potable water source.
Potable Water	Water, which is intended for the uses of drinking, cooking or washing of one's body. Potable is clean and safe for human consumption and is often referred to as the public water supply.
Program	the provision of non-potable water by the Village of Barrington, subject to terms and conditions, sometimes also referred to herein as "the Village's Non-Potable Water Program".
Sedimentation	A process which uses the force of gravity for the removal of larger, denser solids.
Solids	Particles found in sanitary sewage flows which dependent on their size may be settable or suspended. Sanitary sewage flow is comprised of approximately 1% solids.
User	For purpose of this document, a "user" (sometimes also referred to herein as a "Program Participant") is defined as that individual or representative of a contractor which takes the non-potable water for use in hydration, cooling of equipment or soil stabilization Program Participant.

WHY IS TREATED EFFLUENT A NON-POTABLE WATER SOURCE?

Treated effluent is sufficiently clean, by IEPA standards to be discharged to receiving water (Flint Creek), but not clean enough for human use or consumption.

TREATED EFFLUENT IS A NON-POTABLE WATER SOURCE. TREATED EFFLUENT:

- SHALL **NOT** BE USED AS A SOURCE OF CLEAN DRINKING WATER
- SHALL **NOT** BE USED TO WASH ONE'S BODY
- SHALL **NOT** BE APPLIED TO VEGETABLE GARDENS OR FRUIT BEARING PLANTS INTENDED FOR HUMAN CONSUMPTION
- SHALL **NOT** BE APPLIED TO RESIDENTIAL LAWNS
- SHALL **NOT** BE APPLIED TO BALL FIELDS, PLAYGROUNDS OR ANY AREAS EXPECTED TO BE FREQUENTED BY CHILDREN UNDER 10 YEARS OF AGE
- SHALL **NOT** BE APPLIED TO AREAS WITHIN 200 FEET OF ANY POTABLE WATER WELL
- SHALL **NOT** BE USED FOR FILLING OF SWIMMING POOLS
- SHALL **NOT** BE USED FOR FILLING OF PONDS

WHAT CAN NON-POTABLE WATER BE USED FOR?

Non-potable water may be used for hydration of trees, shrubs, flowers and sod grass in areas of commercial development, along roadsides or within rights of ways, and in hydro-seeders for these same applications. Additionally, the non-potable water source may be used for cooling of drill bits during directional boring, saw cutting of concrete or asphalt, jetting of sewers and stabilization of ground, but not involving any of the prohibited applications as set forth above.

PROGRAM ADMINISTRATION

The Director of Public Works or his designee shall administrate the program. In the absence of the Director of Public Works, the program shall fall upon a designee appointed by the Program Administrator.

DO I HAVE TO REGISTER AS A USER?

YES! Those interested in taking advantage of the Non-Potable Water Program must register on an annual basis with the Public Works administrative office prior to participating in the Program. The registration form must be completed in its entirety by each Program Participant including the detailed information on the proposed location and intended use of the non-potable water.

Each Program participant need only to register once with the Administrative Office, for the uses disclosed in the Program Participants registration form; however, if a Program Participant wishes to use the non-potable water for applications other than those disclosed in the initial registration form, the Program Participant must complete an additional registration form for any application(s) not previously disclosed. All Program Participants must be eighteen (18) years of age or older.

HOW DO I REGISTER?

An individual or representative of the company or contractor interested in taking advantage of the non-potable water **MUST** complete a Registration Form and Waiver and Release form, and, at the time of registration, pay to the Village a required \$250.00 per vehicle non-refundable registration fee. The forms require Program Participants to provide information that includes: a contact name, address, phone number, intended use(s) of the non-potable water and acknowledgment of receipt of this Manual.

Registrations are available on the Village website, www.barrington-il.gov and at the Public Works Facility; 300 North Raymond Avenue, Barrington IL

Registrations are accepted **ONLY** at the Public Works Facility. Registrations are accepted from 7:00 am to 2:30 pm, Monday through Friday. Please note that upon review of the registration form, a Public Works staff member may need to visit the proposed application site to ensure appropriate use and precautions are considered.

Once registered, each Program Participant is required to attend a short orientation covering the requirements for the use of the Village's non-potable water source, and how to operate the non-potable water hydrants at the Public Works Facility for this self-service Program.

Orientation will be given by the Director of Public Works or Program Administrator. Each Program Participant will be contacted to arrange the scheduling of the required orientation.

LOCATION OF THE NON-POTABLE LOAD HYDRANTS

The non-potable water hydrant is located at the WWTF attached to the Public Work's Facility. The hydrant is clearly marked "Non-Potable Water". Entrance to the hydrant is through a set of double gates on the east side of the WWTF near the parking lot for the laboratory building (see attached map).

The availability of non-potable water is made on a daily basis. Non-potable water may not be available every day. It is important for Program Participants to check with WWTF staff to see if the non-potable water hydrant is open for the day (call 847-381-7903).

HOW DO I PICKUP NON-POTABLE WATER?

The non-potable water hydrant utilizes a centrifugal pump to deliver the water supply to the hydrant. The pump operates continuously. To retrieve water, simply connect your hose to the hydrant and open the ball valve. When finished filling your tank, simply close the valve and remove your hose. The hydrant is equipped with a 2½" NFPA 1963 NH Standard Thread male outlet. Valve operation is also addressed during the initial orientation.

Note: Each participant must supply their own hose. The Village does not supply hoses for this use. A 2½" Hose meeting the NFPA 1963 NH Standard Thread for Fire Hose is required.

HOURS OF PICKUP FOR NON-POTABLE WATER

Non-potable water is available for collection between the hours of 7:00 am and 2:30 pm, Monday through Friday. Any deviations or extensions in the hours of non-potable water availability may be discussed with the Director of Public Works or Program Administrator who may, in his sole discretion, either approve or deny such request.

DELIVERY OF NON-POTABLE WATER

The delivery of non-potable water is not available by the Village of Barrington. The collection and transportation of the non-potable water is the responsibility of the individual, company, or contractor.

SEASONAL AVAILABILITY

Due to conditions described within our issued NPDES discharge permit, non-potable water is only available for use from April 1ST through November 1st each calendar year, and is dependent on temperature and weather conditions.

IS THERE A COST ASSOCIATED WITH NON-POTABLE WATER?

Yes! An annual non-refundable fee of \$250.00 per vehicle shall be required to be paid to the Village upon a Program Participant's registration with the Village and signed acceptance of the conditions set forth in this Manual. This is an annual fee that each Program Participant is required to pay to the Village every year. A separate fee is required for each individual vehicle registered under this Program; however, there is no limitation on the amount of non-potable water a Program Participant may receive once the Village has received the required registration form(s) and the required annual fee(s). Program Participants will be issued window hangers identifying the license plate number of each vehicle to be used to pick up non-potable water. This hanger must be clearly displayed in each vehicle that is used for the collection of non-potable water. Please note that registration fees are non-refundable, and the Village does not guarantee the availability of non-potable water.

ARE THERE ODORS ASSOCIATED WITH THE NON-POTABLE WATER?

No. Under normal operating conditions, the treated effluent produces no offensive or harmful odors. The non-potable water may have a musky, dirt-like odor.

HANDLING PRECAUTIONS

To reaffirm, the treated effluent or non-potable water source is **NOT** to be used for drinking, cooking, or washing of any part of one's body. Signs located at the non-potable water hydrant site provide cautionary reminders of these restrictions. Program Participants should limit their contact with the non-potable water during normal operation of the

hydrant. Contact with the non-potable water is not harmful to users, and requires no special personal protective equipment when using. It is a recommended practice to thoroughly wash one's hands with soap and water at the conclusion of its use.

Care should also be taken to stay upwind of blowing or drifting treated effluent during its application. Treated effluent should not be applied in areas of close proximity to children under 10 years of age which may be at play in such areas, or who may be anticipated to have frequent contact within areas proposed for application. Treated effluent should never be used as a human cooling agent.

RESTRICTED AVAILABILITY

The Village's non-potable water is tested in accordance with the guidelines of Standard Methods, A Guide to Water and Wastewater Analysis, 21st Edition and must fall within NPDES-defined limits. In the event a collected sample should exceed the NPDES-defined limits, the availability of non-potable water will be suspended until compliance can be restored. Restoration of availability requires two consecutive samples meeting permit standards. Should availability be suspended, the sign located near the non-potable hydrant will be changed from OPEN to CLOSED, and the hydrant will remain closed until compliance is restored.

EMERGENCY CONTACT

In the event of a medical emergency, 911 should be called. In the event of non-emergency problems related to the non-potable water hydrant site or any of its components, including the hydrant, contact should first be made to staff at the WWTF, by telephone. If such contact is unavailable or unsuccessful, the main Administrative Office at the Public Works Facility should then be contacted. For reasons of security and liability, Program Participants are not permitted to enter the WWTF site. Contact phone numbers are as follows:

Wastewater Treatment Facility	847-304-3383
Public Works Administrative Office	847-381-7903

CLEANLINESS OF THE NON-POTABLE HYDRANT SITE

In consideration of other Program Participants and the employees of the Village, it is the responsibility of each Program Participant to assist in maintaining the cleanliness of the hydrant site and its related equipment. All trash, including food containers and material packaging, shall be the responsibility of the Program Participants and shall be picked up and disposed of properly.

CLEANLINESS OF THE NON-POTABLE WATER PICKUP AREA AND ROADWAY

In consideration of other Program Participants, our neighbors, and the employees of the Village, it is the responsibility of each Program Participant to assist in maintaining the cleanliness of roadways serving the hydrant site. The roadways must be kept free of trash and debris. This includes food containers, material packaging, mud, dirt, and stone.

TERMINATION OF PARTICIPATION

Failure of the Program Participant to comply with any portion of the Program, including but not limited to the provisions set forth in this Manual, may result in the termination of participation. It is left to the discretion of the Village of Barrington and the Director of Public Works to determine if a complaint or violation has occurred. An investigation into the complaint or violation will determine the appropriate course of action, up to and including termination of participation in the Program, which shall be determined at the sole discretion of the Director of Public Works.

The Village also reserves the right, at the sole discretion of its Village Manager or his or her designee, to terminate the provision of the Program for all Program Participants for any time period it may choose during the season and to restart the Program at any time during the season it deems appropriate to do so.

**BARRINGTON WASTEWATER TREATMENT FACILITY
302 N. RAYMOND AVE.
BARRINGTON, IL 60010
PHONE: 847-381-7903 / FAX: 847-382-3030**

**NON-POTABLE WATER USE PROGRAM
REGISTRATION FORM**

**FEE: \$250 PER VEHICLE (CASH OR CHECK ONLY) MADE PAYABLE TO:
THE VILLAGE OF BARRINGTON**

Participant License Plate No. _____ Participant License Plate No. _____

Participant License Plate No. _____ Participant License Plate No. _____

Date _____

Individual/Company Name _____

Address _____

Contact Number _____

Location(s) of Non-Potable Use

This non-potable water must not be applied to areas which lie within 200' of a potable water well, or other prohibited areas identified in the Program Manual.

Describe Use(s) of Non-Potable Water (*i.e. horticulture, trees, grass, or concrete cutting*)

How Will the Non-Potable Water Be Applied (*hydro seed, hose*)

Receipt of Non-Potable Water Manual (*circle one*) Y or N
I hereby understand and agree to adhere to the conditions outlined in this manual.

Date

Signature

Print Name

VILLAGE OF BARRINGTON
NON-POTABLE WATER USE PROGRAM
WAIVER AND RELEASE

The undersigned, (print name) _____, on behalf of (Company) _____, the Program Participant, hereby states that [he][she] is either the Program Participant, or a duly authorized representative of the Program Participant, that [he][she] is at least eighteen (18) years of age, and has the authority to execute the Registration Form and this Waiver and Release on behalf of the Program Participant, and acknowledges and agrees that participation in the Village of Barrington Non-Potable Water Use Program (“the Program”) INVOLVES A RISK OF INJURY AND/OR OTHER HAZARDS, AND THE PARTICIPANT VOLUNTARILY AGREES TO AND DOES HEREBY ASSUME ALL SUCH RISKS AND/OR HAZARDS.

On behalf of the Program Participant and our respective heirs, successors, and assigns, we recognize and acknowledge that there are certain risks of injury to participants in the Program, and [I][we] voluntarily agree to assume the full risk of any and all injuries, damages or loss, as a result of said participation. On behalf of the Program Participant and our respective heirs, successors, and assigns, [I][we] further agree to waive and relinquish all claims which may result from directly or indirectly participating in the Program against the Village of Barrington, including its trustees, officers, employees, volunteers, and other agents (“releases”). On behalf of the Program Participant and our heirs, successors, and assigns, [I][we] do hereby fully release and forever discharge all of said releases from any and all claims for injuries, damages, or loss that Participant or its employees may sustain or which may accrue to us, or to our heirs, successors, and assigns arising out of, connected with, or in any way associated with participation in the Program. On behalf of the Participant, [I][we] also agree to hold harmless and indemnify the releases from all liability, costs, claims, and/or expenses of any claims (including attorneys’ fees and other costs of defense) by the Program Participant’s employee(s) and/or any other third parties relative to, arising out of, connected with, and/or in any way associated with the Program Participant’s participation in the Program.

[I][We] have read and fully understand this Waiver and Release. [I][We] understand and agree that our facsimile signature(s) may substitute for and have the same legal effect as an original signature(s) on this form.

[I][WE] HAVE CAREFULLY READ THE ABOVE DOCUMENT ON BEHALF OF THE PARTICIPANT AND HAVE HAD ANY QUESTIONS EXPLAINED TO [ME][US]. [I][WE] FULLY UNDERSTAND THE MEANING AND CONTENT OF THIS DOCUMENT AND VOLUNTARILY EXECUTE THIS RELEASE AND WAIVER FORM ON BEHALF OF THE PROGRAM PARTICIPANT AS ITS DULY AUTHORIZED AGENT.

PARTICIPATION WILL BE DENIED if this Waiver and Release Form is not completed in full or if the signature of a duly-authorized agent of the Program Participant(s) [is][are] not on this Waiver and Release.

PROGRAM PARTICIPANT: _____

BY SIGNATURE: _____

POSITION WITH PARTICIPANT: _____

PRINT NAME: _____

