

Greater Cincinnati Water Works

Engineering Division

June 20, 2013

Rainwater Harvesting System Requirements for Cisterns :

1. Rainwater is permitted to be used for flushing of toilets and irrigation only.
2. Purple Pipe must be utilized both inside and outside of the building for any non-potable water supply of Rainwater or Runoff. The pipe must be embossed, integrally stamped or marked with the words: "CAUTION: NON-POTABLE WATER – DO NOT DRINK"
3. Water should be treated but not to potable water standards.
4. Operations and Maintenance Manuals must be submitted to Water Works as part of permit review process. Applicant must specify type of maintenance and a schedule of when maintenance is to occur.
5. The Water Works reserves the right to review and approve Operation and Maintenance at the time of installation and inspection. The Water Works will determine the frequency of testing.
6. An appropriate approved permit from the City of Cincinnati is required before applicant can build and operate a Rainwater Harvesting System
7. At a minimum, backflow devices including air gaps must be tested/inspected at the time of installation and every 12 months, as per Water Works standards.
8. Makeup water from the public water system: The public water supply must be protected against backflow by means of a backflow prevention device or air gap. Backflow prevention devices must be kept in good working order and air gaps are not to be breached with a piped connection or hose into tanks.
9. Contact Person for questions about:

Rainwater Harvesting Survey and submittals: Ms. Becky Calder at 591-7857

Backflow Testing procedures: Mr. Dave Rechel at 591-7835

Water testing practices: Mr. Jeff Swertfeger at 624-5608

Premise Address _____ Lot # _____ Application Date _____ Branch Number _____

Branch Size _____ Meter Size _____ Water Main Size _____ Meter Type _____ Meter Number _____ Community _____

Type of Service: Domestic only _____ Irrigation only _____ Other _____ **OR** Dual Service _____ Tri-Service _____: Domestic _____ Irrigation _____ Fire _____
(circle two or three)

Branch Location: N-S-E-W side of _____, _____ feet N-S-E-W of _____ fire hydrant(s) N-S-E-W of _____
(circle one) (circle one)
 If domestic is part of a dual service branch please specify if **LEFT** or **RIGHT** of fire branch: _____ **LEFT** _____ **RIGHT**
(Street name)

Any existing water services/sources of water? Cincinnati _____ Existing Branch # _____ Well _____ Cistern _____ Lake/Pond _____ Other _____
 Will the existing water source be discontinued when new branch is installed? Y/N _____ If yes, how will it be discontinued? _____

Plumbing Contractor's Name: _____
Plumbing Contractor's Address: _____ (City) _____ (State) _____ (Zip) _____
(Number and Street)
Plumbing Phone # _____ **FAX #** _____ **email:** _____

Owner's Name: _____
Owner's Address: _____ (City) _____ (State) _____ (Zip) _____
(Number and Street)
Owner's Phone # _____ **Owner's email** _____

General Contractor's (GC) Name: _____ **GC's Phone Number** _____ **GC's Fax Number** _____
(Residential or Commercial or other)
 Type of Premise: _____ How many stories? _____ Cubic Feet _____ Number of Commercial Units _____

Peak water demand in gpm: _____ GPM Needed system pressure in psi: _____ PSI
 Rainwater to be collected from (Check all that apply): Building Roof: _____ Yard: _____ Separate Catchment System: _____
 Other: _____

How will the rainwater be collected (Check all that apply): Rain Barrel _____ Cistern _____ Pond _____ Other: _____

Specific Location of Cistern: Inside Building: _____ Outside Building: _____
 Size of Cistern: Length: _____ Width: _____ Depth: _____ What is the capacity in Gallons? _____

Does the Cistern have a fill pipe from the Public Water System? Yes _____ No _____ Other: _____
 If yes, is it filled by hose or piped connection? _____ If a piped connection, is there an air gap at the cistern? _____

List all Intended uses of Rainwater: Flushing toilets: _____ Irrigation: _____ Other: _____
 If this is to be used for irrigation is there an underground lawn sprinkling system? _____ Are there self-draining drinking fountains, hydrants, or hose boxes? _____

Method of Rainwater Disinfection/Treatment (Check all that apply): Chlorine _____ Bromides _____ UV _____ Other: _____

Are pumps used on the Rainwater Harvesting supply or distribution? _____ If so, what is their capacity in GPM? _____ Do they take direct suction from Rainwater reservoir? _____

Additional Information _____

GREATER CINCINNATI WATER WORKS
Rainwater Harvesting Survey

TO BE SIGNED BY PERSON MAKING APPLICATION FOR WATER SERVICE AND/OR METER

I HEREBY CERTIFY THAT I AM ACTING AS AGENT FOR THE OWNER OF THE PREMISES LISTED, WITH THEIR FULL KNOWLEDGE AND CONSENT, AND THAT ALL INFORMATION FURNISHED IS COMPLETE AND CORRECT. AS THE OWNER'S AGENT, I FURTHER ACKNOWLEDGE THAT INCOMPLETE OR INCORRECT INFORMATION MAY RESULT IN AN ADDITIONAL OR DIFFERENT REQUIREMENT IN SO FAR AS BACKFLOW PREVENTION DEVICE AT THE WATER SERVICE CONNECTION IS CONCERNED.

APPLICANT NAME: _____ COMPANY: _____ (PRINT) _____ (PRINT)
APPLICANT SIGNATURE: _____ DATE: _____

FOR WATER WORKS USE ONLY

_____ NO BACKFLOW PREVENTION DEVICES REQUIRED
_____ AIR GAP REQUIRED AT: _____
_____ INCH REDUCED PRESSURE PRINCIPLE DEVICE REQUIRED: _____ Immediately inside building before any take offs.
_____ Above ground, immediately past meter, in a heated structure.
_____ If well/cistern is properly abated/abandoned then RP not required
_____ Other _____

_____ INCH DOUBLE CHECK DEVICE REQUIRED: _____
_____ LOW PRESSURE CUT-OFF SWITCH/ MINIMUM PRESSURE SUSTAINING VALVE REQUIRED ON PUMPS

_____ Purple Pipe must be utilized

_____ Dye must be added to Rainwater mixture

_____ Operations and Maintenance Manual Submitted with Survey

_____ Water Quality Testing Required: _____ Monthly _____ Quarterly _____ Every 6 Months _____ Annually _____ Other _____

_____ OTHER: _____

SYSTEM STATIC PRESSURE: _____ 100' SCALE _____ WATER MAIN PLAN # : _____

REVIEWER'S SIGNATURE: _____ DATE: _____ SECOND REVIEWER'S SIGNATURE: _____ DATE: _____

ADDITIONAL REMARKS: _____