## STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH DRINKING WATER SECTION STORAGE TANK PROJECT APPLICATION

## <u>Instructions</u>

This application is provided in the interest of facilitating the approval process for storage tank projects, and must be submitted to the Department of Public Health (DPH) along with a General Application Form. A document entitled "Storage Tank Design and Construction Guidelines" is available on the DPH's web site <a href="http://www.ct.gov/dph/publicdrinkingwater">http://www.ct.gov/dph/publicdrinkingwater</a> for use as a reference in the design of a storage tank and identifies applicable Regulations of Connecticut State Agencies (RCSA) or Connecticut General Statutes (CGS). Supporting information as identified with an asterisk (\*) in this application will need to be provided. Specific and applicable RCSA or CGS will be stated within brackets [ ]. If the project overall has multiple components other than a storage tank (i.e. wells, treatment, pumps, etc.), additional applications may need to be completed. Check off all items that apply.

Section A. General Information		
PWS Name:		
PWSID #: CT		
Please provide the contact information of the primary project:	person who can answer technical questions regarding this	
Name:		
Title:		
Company:		
Address:		
Phone Number:		
Fax Number:		
E-mail Address:		
Section B. Type of Tank(s)		
Standpipe (atmospheric)	☐ Hydropneumatic/Pressure	
Ground Level (atmospheric)	Other:	
☐ Buried/Bulkheaded (atmospheric)		
☐ Elevated (atmospheric)		

Section C. Plans and Specifications		
	or hydropheumatic, a scaled site plan needs to be	
* 1. For any buried or partially buried tank, atmospheric or hydropneumatic, a scaled site plan needs to be submitted to the DPH identifying: that there are no buried subsurface sewage disposal system components or		
sanitary sewers within a 50 feet of the proposed tank; ar		
sources of pollution (i.e. fuel tanks/lines, drywells, etc.) within a 25 feet of the proposed tank. [RCSA Section 19-		
13-B102(f)(5)(B)] If the tank(s) is not to be buried nor pa		
	n drawing(s)/schematic(s) of the proposed storage tank(s)	
and its location relative to applicable existing facility com		
be submitted to the DPH. As a minimum and as applicable, the following components should be shown and labeled: storage tank, vent(s), overflow, access hatches and/or manways, drain pipe, water level indicating		
	Detailed drawings for an atmospheric tank's vent, overflow	
and hatches should be provided.	retained drawings for all authophenic tarik's veril, evenien	
3. Copy of contract specifications and/or manufacturers'	specifications/cut sheets for major project components	
identified for this project (i.e. tank, hatch, vent, etc.), sho		
4. A tank must be located above the level of a 100 year flood. [RCSA Section 19-13-B102(d)(1)(A)]		
* Verification must be provided (FEMA map or other).		
Section D. Sizing/Volumes and Materials	Tank Dimensions (fast)	
Atmospheric Tank(s) and Clearwells	Tank Dimensions (feet)	
No. of tanks:	Cylindrical:	
Gross volume (gal./tank):	Diameter:	
Useable volume (gal./tank):	Length/Height:	
Material of tank:  welded steel;  bolted steel	Rectangular:	
☐ fiberglass; ☐ polyethylene; ☐ concrete;	Length:	
☐ other:	Width:	
Identify pump type to supply/operate in conjunction with Height::		
tank:		
□ well(s) □ booster pump(s) □ VFD		
* Calculations used for sizing of tank(s) should be provided.		
2. Hydropneumatic/Pressure Tank(s)	Material of tank:  steel;  fiberglass;	
No. of tanks:	other:	
Gross volume (gal./tank):	Identify pump type to supply/operate in conjunction with	
Type: ☐ std./conventional ☐ bladder/diaphragm	tank:	
	□ well(s) □ booster pump(s) □ VFD	
	Flow rate (gpm) used for sizing of tank(s):	
* Calculations used for sizing of tank(s) should be provide	led.	

Section D. Sizing/Volumes and Materials (continued)		
3. Interior Paint or Lining The DPH accepts the use of an interior paint or lining wh Standard 61 is a national industry standard pertaining to There are third party accredited testing laboratories inclu (www.ul.com), and WQA (www.wqa.org) which certify dr 61. Glass fused steel or polyethylene atmospheric tanks other type tanks may be certified under a different stand. Name of product used for interior surface paint/lining:	the certification of drinking water system components. Iding, but not limited to, NSF (www.nsf.org), UL Inking water system components to ANSI/NSF Standard Is or bladder/diaphragm pressure tanks, polyethylene or Idiard.	
Manufacturer:		
* Provide a copy of the ANSI/NSF Standard certification/ interior of the tank(s) or for the tank.		
Section E. Hydropneumatic Tank(s) Componen	ts/Appurtenances	
Check off any of the following items that exist or will be p  ☐ Pressure gauge	Drain/blowoff for each tank	
☐ Pressure relief valve	☐ Inlet pipe and outlet pipe: ☐ common; ☐ separate;	
☐ Pressure switch	☐ with isolation valve(s)	
Proposed pressure settings for operation of well(s) or	☐ Valves/controls for automatic addition of air	
booster pump discharging to pressure tank:	☐ Air compressor for adding air; ☐ oil-less	
Start/on (psi):	☐ Water level sight tube	
Stop/off (psi):		
Section F. Atmospheric Tank(s) Components/A	ppurtenances	
Check off any of the following items that exist or will be pure Vent(s) [RCSA Section 19-13-B102(f)(5)(A)]:	provided in conjunction with the tank(s):	
Type of vent(s): $\square$ dome; $\square$ inverted J-shaped; $\square$	mushroom; No. of vents:	
protected and screened; mesh size of screen:		
Overflow [RCSA Section 19-13-B102(f)(5)(A)]:		
protected and screened and mesh size of screen:		
☐ tight fitting flap valve; ☐ duck-bill elastomeric check valve; ☐ air-gapped above grade or above a		
receiving structure, and if not, describe:		
☐ Access hatches and manways [RCSA Section 19-13-B102(f)(5)(A)]:		
$\square$ hatch in top of tank, $\square$ hatch opening has raised curb frame and overlapping cover preventing		
precipitation from entering into the tank, $\square$ hatch frame/cover has continuous gasket, $\square$ lock provided;		
$\hfill\Box$ in top of tank, circular with gasket and bolted cover	er; 🔲 in face of tank; 🔲 in sideshell	
☐ Tank drain: discharge location/outlet structure:		
Footing drain: discharge location:		
$\hfill \Box$ Emergency fill pipe: $\hfill \Box$ with locked cap or equivalent		
☐ Inlet pipe and outlet pipe: ☐ common or ☐ separate; ☐ with isolation valves		
☐ Sample tap(s), smooth nose and free of obstructions; and locations ☐ inlet pipe; ☐ outlet pipe		

Section F. Atmospheric Tank(s) Components/Appurtenances (continued)		
☐ Access ladder: ☐ with security protection, description:		
☐ Internal mixing/circulation system: type:		
☐ Perimeter fencing; ☐ Locked access gate		
Section G. Operating Water Level Equipment/Controls and Ala	arms (atmospheric tanks)	
Check off any of the following items that exist or will be provided in conjur	nction with the tank(s):	
☐ Water level measuring: ☐ translucent sidewall gal. incremented; ☐ p	ressure gauge;  sight tube;	
pressure sensor		
☐ Water level monitoring/recording: ☐ chart recorder; ☐ SCADA;		
☐ Alarms (identify feet from bottom of tank):		
☐ low water level: ☐ high water le	vel:	
☐ Alarm type: ☐ audio ☐ light ☐ dialer ☐ SCADA		
Other controls associated with water level in tank::   well activation   booster pump shut-off on low tank level		
Proposed tank operating levels (feet from bottom):		
The high level identified below should correspond to the useable volume in	dentified in Section D.1.	
low high	overflow	
Section H. Contact Time (CT)		
* If the tank is to be used whole or in part to achieve a required "CT" using chlorine, ozone or other disinfectant		
chemical in accordance with Section 19-13-B102(e)(7)(M) of the RCSA, saccordance with Section 19-13-B102(i)(3) of the RCSA, or 4-log inactivation		
accordance with Section 19-13-B102(j)(3) of the RCSA, or 4-log inactivation of viruses in accordance with the Ground Water Rule (GWR), an applicant must provide calculations used to assess CT. For a system which uses		
groundwater sources [well(s)] and chlorine as a disinfectant, please refer to the DPH document GUIDELINES		
FOR DETERMINING DISINFECTION "CT" WHEN USING CHLORINE FO		
GROUNDWATER SOURCES OF SUPPLY and a separate DISINFECTION OF SUPPLY AND A SEPARATE OF SUPPLY AND		
GROUNDWATER USING CHLORINE FOR DISINFECTION. For CT requirements for surface water treatment		
facilities, refer to Federal guidelines.  Section I. Disinfection/Testing		
A tank must be effectively disinfected prior to placing into service. [Section	n 19-13-B47 of RCSAl	
Method of disinfection to be implemented:		
Tests must be conducted on a sample from the water stored in tank after disinfection and prior to placing the tank		
into service for chlorine residual, total coliform, physical parameters and c	organic chemicals (aka VOCs).	
Section J. Certification		
This application must be signed by the PWS administrative official, his/he operator of the PWS.	er authorized representative, or certified	
I hereby certify that I have examined the information contained in this a have determined it to be accurate to the best of my knowledge:	oplication as submitted to the DPH and	
Signature:	Date Signed:	
Name (Print):	Telephone #:	
Title and Relationship to PWS:		