WATER CONSERVATION AND DROUGHT OR WATER SUPPLY EMERGENCY MANAGEMENT PLAN REPORT FOR PUBLIC WATER SUPPLY SYSTEMS

PERMITTEE:			PROGRAM INTEREST NO.:			
CONTACT NAME:			DATE:			
ADDRESS	S:					
EMAIL AI	ODRESS	S:				
ГЕГЕРНО	NE NO.	:				
Submit to:	Bure P.O.	l Code 401-04Q eau of Water Allocation & Well Permitting Box 420 aton, New Jersey 08625-0420				
See your W	Vater All	ocation Permit for you	ur submittal sch	edule		
	ervation	read and complete all and water management tted.				-
report must with the or	t be subn iginal ke	file copies of the prevnitted on an exact repl pt on file for future re rovided for your infor	lica of this work ference. An inc	sheet, either a complete work	a photocopy or a com asheet will be returned	nputerized version,
I. WA	ATER CO	ONSERVATION CO	MPONENTS			
A.	WA	TER SYSTEM				
	1.	Allocation:	mgm,	gpm,	mgy	
	2.	Sources of water:				
		number of wells _				
		number of surface	intakes			
		bulk purchase	mgd,	mgm,	mgy	
	3.	Metering: raw water source finished water			ie) No No	
		delivered water		Yes N	lo .	

B.

4.	Date of last source meter calibration:						
5.	System Capacity:						
	treatment	mgd					
	delivery	mgd					
	storage	mg					
6.	Customer Base:						
		# of Connections	# of Meters	% of overall use			
	Residential						
	Commercial						
	Industrial						
	Municipal						
	Total						
7.	Interconnections:						
,.							
	existing/size						
	under construction						
	planned (5 year)						
	Interconnection Use (circle one) Bulk Emergency Other (describe)						
	Agreements for use (ci	rcle one) Yes	(give details)	No			
8.	Map or diagram of the system (submit only once unless there are changes).						
ΔΝΔ	ALYSIS OF WATER USI	7					
ANT	LISIS OF WATER OSI						
1.	Demand: Report demand from the most recent year for which you have complete data the "Base Year". Note the years the data refers to where indicated.						
	USAGE	F	PEAK MONTH	ANNUAL			
	Base Year 20		(mgm)	(mgy)			
	Previous Year 20						
	Peak Year (of last 5)	20					
	Peak Year (of last 10						
	DD OVE CORES	IGACE 7	NEAR AGNIES	A 3/3/// A Y			
	PROJECTED U	JSAGE F	PEAK MONTH (mgm)	ANNUAL (mgy)			
	Next Year 20		(1118111)	(IIIgy)			
	5 Year 20						

Customers:						
Estimated pop	ulation	(20_	_ year)			
Names of mur	nicipalities	served			_	
Per Capita Us	e					
To produce sta years identifie		data, please use the 1 - Demand.	e following calcu	llations, using da	ata from the	
Anong go Ugo	_ (Total	annual usage* in Numbe	gallons×% Re	sidential Use)	÷ 365	
Averuge ose		Numbe	r of People Ser	rved		
	(Mini	mum month usaa	e in gallons×%	% Residential I	Jse) ÷ 31*	
Minimum Us	$e = \frac{1}{1000}$	mum month usag Num	ber of People S	Served		
Maximum Use = $\frac{(Maximum month usage in gallons \times \% Residential Use) \div 31}{Number of People Served}$						
Maximum U	$se = \frac{(Max)}{}$	nmum montn usa Num	ge in gailons x	% Kesiaentiai Sorvod	<u>Use) ÷ 31</u>	
		al Diversion + Total umber of days in minin			28,30 or 31,	
	penaing on n	umber of adys in minin	штутахітит топі			
		Current Year	Last Yea			
Average		20	20			
Minimum						
Maximum						
Calculation ba	sed on (cir	ccle one) total p	umpage	or residentia	al use only	
Management	of Peaks (d	escribe approach):				
1,10,100	31 1 30 113 (0	eseries approach.				
D : .:	G 4					
Projections of	Growth:					
		Service Connect	ions			
new in past	•					
expected th	is year					

projected 5 year

2.

3.

4.

C. UNACCOUNTED-FOR WATER

	frequency of su	rveys (performed o	n a regular sched	lule, as conditions re
	miles of mains	surveyed per year _		
	valves tested _			
	hydrants tested			
methods employed				
	equipment used	i		
	equipment own	ed/rented/borrowed	l/consultant empl	loyed
	Mains	Number	Size	Repaired
	Mains Valves	Number	Size	Repaired
		Number	Size	Repaired
	Valves		Size	Repaired

5.	Calculate Unaccounted-for Water (UFW) for past two years
	(DO NOT INCLUDE ANY ESTIMATED WATER USE)

$$100 - \left(\frac{gallons\ of\ water\ billed\ *}{gallons\ of\ water\ entering\ distribution\ system} \times 100\right) = UFW\%$$

$$100 - \left(\frac{gallons}{gallons} \times 100\right) = \frac{\% (20_{--})}{}$$

$$100 - \left(\frac{gallons}{gallons} \times 100\right) = \underline{\qquad} \% (20\underline{\qquad})$$

*Water billed may include unbilled metered water and/or unbilled authorized consumption (e.g. fire fighting)

- 6. Estimate water supply used for fire fighting and unmetered municipal buildings. _____ mgy
- 7. Water Loss Audit (optional) /Water Loss Control

"Water loss control represents the efforts of water utilities to provide accountability in their operation by reliably auditing their water supplies and implementing controls to minimize system losses."

The following is a link to the American Water Works Associations' free water audit software: http://www.awwa.org/resources-tools/water-knowledge/water-loss-control.aspx

Software outputs meaningful indicators:

gpd / connection

gpd / mile mains

ILI (infrastructure leakage index)

Questions? Contact AWWA's Water Loss Control Committee directly.

D. WATER RATES

- 1. Attach a copy of your rate schedule or a summary of schedule.
- 2. Note any planned or proposed changes in rates.
- 3. Meter reading and billing schedule ______

II.

A.

E. PUBLIC EDUCATION/AWARENESS

List efforts undertaken to date and those planned 1. Assess public awareness of local and regional water supply problems. 2. Describe and/or include samples of information distributed to water users. 3. Describe activities undertaken in the past 3 years to meet with environmental committees and watershed associations to explore the concept of water conservation education. 4. Describe the assistance given to schools and civic organizations to promote the best use of local water resources. DROUGHT OR WATER SUPPLY EMERGENCY MANAGEMENT COMPONENTS Management of Localized Water Supply Problems Storage, backup supplies, equipment and interconnections on standby status: 1. NOTE: The following section refers to local restrictions, which may be voluntary or mandatory, as decided by local officials when necessary, to manage local shortages only. The restrictions that apply when a drought emergency is declared by the Governor are not to be included here. 2. List ordinances that have been adopted to promote water conservation and provisions for their enforcement:

	3.	Indicate which of the above ordinances are implemented during the following local conditions: a. Drought warning				
		b. Drought emergency				
		c. Precipitation deficits				
		d. Reservoir storage deficits				
	4.	Distribution of water conservation devices/retrofit program/rebate program:				
	5.	Regulations requiring reuse or recycling of water:				
В.	Volur	ntary Transfers Via Interconnections				
	1.	Describe conditions under which voluntary transfers of water into your system are made				
		via existing interconnections:				
	2.	Describe existing interconnections and agreements for their use during temporary				
		emergencies and during localized drought emergencies:				
	3.	Give schedule for exercising interconnections:				

- C. Purveyors with Water Supply Reservoirs with Capacity over 2.0 Billion Gallons ONLY;
 - 1. Attach a rule curve that can be used to establish storage level thresholds for your reservoir or note that there is one on file with the Bureau of Water Allocation & Well Permitting.
 - 2. Explain the management steps to be taken as drought conditions progress approaching drought warning or drought emergency levels of the rule curve.