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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER SUPPLY & GEOSCIENCE BUREAU OF WATER SYSTEM ENGINEERING TECHNICAL REVIEW FORM

SYSTEM SUPPLY CAPACITY ANALYSIS (N.J.A.C. 7:10- 11.5(e))

Water Purveyo	or P	WSID#	Muni	cipality	,
A. New Demands of this	Project				
Estimated additional residential	demand (N.J.A.C. 5:21-5.1):				
Type/Size of Housing Unit	Water Demand per Unit (in gallons per day)	Number of Units	Average Day Demand (Number of Units x water demand per unit)	Peaking Factor	Peak Day Demand (MGD)
Total Residential Demand					
Estimated additional non-reside	ntial demand (N.J.A.C. 7:10-	12.6 Table 1):			
Type of Establishment	Water Demand per Unit (in gallons per day)	Number of Units	Average Day Demand (Number of Units x water demand per unit)	Peaking Factor	Peak Day Demand (MGD)
Total Non-Residential Deman	d				
Total New Average Daily Dema Residential Ave Demand		ve Demand	MGD =	MGD <mark>('</mark>	Value D1)
Total New Peak Daily Demand Residential Peak Demand		eak Demand	MGD =	MGD <mark>(</mark>	Value D2)
Supporting Data and Calculation If Peaking Factor is less than 3 is					
ENGINEERS CERTIFIC I hereby certify that answers pro		reflective of the	project being considered	l for app	roval.
Signature of Engineer Professional Engineer's Emboss	Date sed Seal		N.J.P.E. #		Professiona 1
Type or Print Name of Engineer	ring Firm			\ _	Engineer's Embossed

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B System Supply Capacity

1	$\mathbf{\Omega}$	C	•
1.	()XX/M	Sources:	4
1.	$\mathbf{v}_{\mathbf{w}}$	Dout cos.	

List all the water system	e avicting cources	of water with	their allocation	numnina	treatment and auxiliary	nower canacities
List all the water system	s existing sources (or water with	men anocanon,	, pumping,	treatment and auxinary	power capacities.

				Limiting	Capacity		Capacity	Auxiliar Power Y/		•
Wells or Surface Water Source	Allocation Limits (MGD)	Pumping Capacity (MGD)	Treatment Capacity (MGD)	Capacity (smaller of pumping and treatment)	Under Auxiliary Power (MGD)	Permanent	Portable Dedicated	Portable Dontal		
Totals (MGD)										
*Attach separate sheet in th	e same forma	t for addition	al sources	(Value 1)	(Value 2)	_				
ystem Source/Treatment Capacit	y (value 1) =		MGD							
argest source or Treatment comp	onent is:			at _	M	GD				
ystem Source/Treatment Firm Ca	apacity (Source	e Capacity mir	nus largest sour	rce or treatmen	t component):			(<mark>Val</mark>		
Allocation Limits The current allocation limits for the	ne water system	n's own source	es:							

Diversion Permit	gpm	MGM	MGY
Totals			
		(value 4)	(value 5)

3. Purchase Contracts

List all the existing Purchase Contracts:

Supplier (PWSID - PWS Name)	Total Hydraulic Capacity (MGD)	Contract Type (Bulk, Emergency)	Contract Effective Date	Contract Expiration Date	Peak Day Contract Limit (MGD)	Peak Month Contract Limit (MGM)	Yearly Contract Limit (MGY)
Total Purchase Volumes							

*Attach separat	e sheet in the same format for additional contracts	Value 6	Value 7	Value 8
4. Total System S	Supply Capacity			
Firm Capacity	= (Source Firm Capacity) + (Contract Daily Total)	ı		
	= (value 3) + (value 6)	=	MGD	(value C1)
Monthly Capacity	= Allocation Monthly Limit + Contract Monthly t = (value 4) + (value 7)	otal =	MGM	1 (value C2)
Annual Capacity	= Allocation Annual Limit + Contract Ann	nual total		
	=(value 5) +(value 8)	=	MGY	(value C3)

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C. Existing System Demands

1. System Demands

List the water system's historic total demand for each month for the previous five years:

This demand shall be "Volume Purchased" + "Volume Diverted from Own Sources"

	volume 1 drenascu volume Diverted from Own Sources	Current Year
Type in Year →		
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		
Peak (MGM)		
Total (MGY)		
Peak Monthly Demand Peak Daily demand	= (highest month in the past five years) = MGM (value D4), Month, Year = (Peak Monthly Demand divided by the number of days in that month)	
•		
	= ÷ days	
	=MGD (value D3), Month, Year	
Peak Yearly Demand	= (highest yearly total in the past five years)	
	=MGY (value D5), Year	
Does the water syste	em have any bulk Sales Contracts with other Water Systems? Yes	: No: [
If No. go to secti	ion CA	

If No, go to section C4

2. Contracts* (Sales Contracts Only)

List all the existing Sale Contracts

Supplier (PWSID - PWS Name)	Hydraulic Capacity (MGD)	Contract Type (Bulk, Emergency)	Contract Effective Date	Contract Expiration Date	Peak Day Contract Limit (MGD)	Peak Month Contract Limit (MGM)	Yearly Contract Limit (MGY)
	Totals						

^{*}Attach separate sheet in the same format for additional contracts

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3. C	onstrained Capa	city Evaluation					
Constra	nstrained Monthly limit = 90% of the Total System Monthly Supply Capacity						
		=	(value C2) x ().9 = MGM <mark>(</mark>	value 13)		
Is the F	Peak Monthly Deman	d(value	D4)				
	less than or equal t	o the "Constrained l	Monthly Limit"	(value 13)?	Yes:	No:	
	ained Annual limit		· ·	ual Supply Capacity			
		=	(value C3) x (0.9 = MGY (v	value 14)		
Is the I							
	less than or equal t	o the "Constrained A	Annual Limit"	(value 14)?	Yes: N	No:	
-	answered No to eithe	_	e Year Demand-Reso	ource Evaluation" Report?	Yes:	No:	
2000 1	•			_	1		
	If Yes, pro	ovide the Letter App	proval Number:				
	If No, has the Wate	er System received 1	prior approval to sub	omit this permit application?	Yes:	No:	
	If Yes, pro	ovide the Letter App	proval Number:				
	If No, this	s permit will be dete	rmined as Administ	ratively Incomplete and mag	y be Returned.		
4. Pı	eviously Allocat	ed Demands					
	the permits that have ly under review with		ed with them that ha	ve been already approved, l	but not yet constructed,	or are	
	Permit Number	Permit Effective Date	Permit Expiration Date	Average Daily Demand (as defined in the permit) (MGD)	Peak Daily Demand (as defined in the permit (MGD)		

Value D6

Value D7

Authorized connections that do not require a SDW Permit Total Previously Allocated Demand

BWSE-PA05E (08/18) **D. New Total System Demand:**

New Estimated Total Daily Peak System Demand = V	Value D2 + Value D3 + Value D7	
=+++++	=	MGD (Value T1) (nearest 1000gal i.e. 3 decimals)
New Total Monthly Peak System Demand = V	Value D4 + (Value D1 + Value D	6) x days x monthly peaking factor
=+ (++) x 31 x 1.5 =	mearest 10,000gal i.e. 2 decimals)
New Total Annual Peak System Demand = V	Value D5 + (Value D1 + Value D6	6) x days
=+ (+) x 365 =	MGY (Value T3) (nearest 100,000gal i.e. 1 decimal)
E. System Capacity Evaluation:		
Is the (New Total Daily Peak System Demand)	(Value T1)	
less than (Total System Supply Firm Capacity) _	(Value C1)?	Yes: No:
Is the (New Total Monthly Peak System Demand)	(Value T2)	
less than (Total System Supply Monthly Capacit	ty) (Value C2)?	Yes: No:
Is the (New Total Annual Peak System Demand)	(Value T3)	
less than (Total System Supply Annual Capacity	(Value C3)?	Yes: No:
Note that if the allocated demand associated with this and values then the permittee may be required via permit concevaluation"		
If you have answered No to any of these three q to provide water for this permit application and	•	¥ •
F. APPLICANT'S CERTIFICATION		
I certify under penalty of law that the information complete. I am aware that there are significant connection inaccurate or incomplete information.	•	
Type: Name	*Signature of Applicant/ O	wner's Authorized Representative
**		1
Type: Position	Date of Application	