NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SYSTEM ENGINEERING
TECHNICAL REVIEW FORM

GRANULAR ACTIVATED CARBON CONTACTORS
(N.J.A.C. 7:10-11.15(h))

_____ _____ _____
Water Purveyor PWSID# Municipality

No. of Contactors: _____ Modes of Operation: ☐ Series OR ☐ Parallel
☐ Upflow OR ☐ Downflow

Vessel Material: ☐ Aluminum ☐ Stainless Steel
☐ Concrete ☐ Other: _____
☐ Fiberglass

Type of Media Effective Size	Media Thickness	Uniformity Coefficient
_____	_____	_____
_____	_____	_____
_____	_____	_____

Contactor Diameter: _____ Carbon Volume per Contactor: _____
Unit Design Flow Rate: _____ Carbon Mass per Contactor: _____
Surface Loading Rate: _____ Empty Bed Contact Time: _____

Sources to Be Served: Actual or Anticipated Conditions:

Well No.	Capacity (gpm)	Contaminant	Level Found (ppb)	Design Level (ppb)
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

	YES	NO	N/A
1. Does the design meet requirements for filtration at N.J.A.C. 7:10-11.14?	☐	☐	☐
2. Is the empty bed contact time not less than 20 minutes? (N.J.A.C. 7:10-11.15(h)2)	☐	☐	☐
3. Are the units capable of being backwashed at a rate not less than 12 gpm/ft^2? (N.J.A.C. 7:10-11.15(h)3)	☐	☐	☐

	YES	NO	N/A
4. If the units are being used for both filtration and adsorption, has the estimated time of breakthrough been re-determined to account for the chromatographic effect of frequent backwashing? (N.J.A.C. 7:10-11.15(h)4)	☐	☐	☐
5. For pressure units, are means provided to release excess pressure? (N.J.A.C. 7:10-11.15(h)5)	☐	☐	☐
6. Are influent, intermediate, and effluent sampling taps provided? (N.J.A.C. 7:10-11.15(h)6)	☐	☐	☐
7. Is the system designed to use virgin carbon? (N.J.A.C. 7:10-11.15(h)8)	☐	☐	☐
8. Is the granular activated carbon bed at least 48 inches deep? (N.J.A.C. 7:10-11.15(h)9)	☐	☐	☐
9. Is each unit provided with isolation valves and a drain? (N.J.A.C. 7:10-11.15(h)12)	☐	☐	☐

Submit appropriate engineering plans, specifications, reports, etc. to substantiate your answers

I hereby certify that answers provided herein are accurate and reflective of the project being considered for approval.

_____ _____ _____

Signature of Engineer Date N.J.P.E. #

Professional Engineer's Embossed Seal

_____

Type or Print Name of Engineering Firm