RPR 54J Sewage Disposal Work Sheet

Nuclide	Activity (μCi)	Monthly limit (μCi/ml) from 10 cfr 20 app. B	Yearly Limit (Ci)
Waste Tag Numbers			

1)	Calculate average water flow (AMF) through the building. The AMF is a calculated average of the 12 monthly water flow rates prior to discharge (Reports are obtained from the Budget Office).	_____ml (AMF)
2)	Compute the Discharge Safety Volume (DSV) by dividing the AMF by 10. This ensures an adequate safety margin to prevent the TSO from exceeding the discharge limits specified in 10CFR20.2003.	_____ ml (DSV)
3)	Calculate the discharge activity by dividing the nuclide activity by the DSV.	_____ _____μCi/ml
4)	Enter the amount of activity that has been discharged during the current calendar year (This amount shall not exceed the monthly and yearly limits specified in 10CFR20.2003).	_____uCi
5)	Determine the release fraction by dividing (3) above by the Monthly discharge concentration.	_____fraction
6)	Add the fraction calculated above to the fractions for all radionuclide disposals conducted over the past calendar year (this value must not exceed one).	_____total yearly fraction

Calculated By: _____ Date: _____
TSO Representative

Approved By: _____ Date: _____
Radiation Safety Officer