Table 2
Proposed Exempt Aquifer Water Quality Analyses
All concentrations in milligrams per liter (mg/L) except where noted (Gross Alpha, Ra-226 + Ra-228, and uranium)

Parameter	Primary Standard	Injection Well				50-Year Projections		
		JDF-1	JDF-2	JDF-3	Highest Concentration of the Three Wells (Assumed Formation Water Quality)	Concentrate from Plant	Well Bore Concentration (Assumes 50/50 Mix of Formation Water and Concentrate)	Concentration at Edge of Plume (0.001 concentration line from model results)
Antimony	0.006	N/A	< 0.01	< 0.01	<0.01	BDL	BDL	BDL
Arsenic	0.01	0.0106	< 0.01	< 0.01	0.0106	0.079	0.0395	0.0107
Barium	2	N/A	0.055	0.056	0.056	0.466	0.261	0.056
Beryllium	0.004	N/A	< 0.004	< 0.004	<0.004	BDL	BDL	BDL
Cadmium	0.005	N/A	< 0.003	< 0.003	<0.003	BDL	BDL	BDL
Chromium	0.1	N/A	< 0.010	< 0.010	<0.010	BDL	BDL	BDL
Cyanide	0.2	N/A	< 0.02	< 0.02	<0.02	BDL	BDL	BDL
Fluoride	4	3.11	1.09	1.12	3.11	5.6	4.36	3.11
Gross Alpha (less Ra and U) (pCi/L)	15	412 ± 56.721	620 ± 170	774 ± 40	774 ± 40	24	399	773
Mercury	0.002	N/A	< 0.0005	< 0.0005	<0.0005	BDL	BDL	BDL
Nitrate	10	< 0.5	< 0.10	< 0.10	<0.10	BDL	BDL	BDL
Nitrite	1	1.14	< 0.05	< 0.05	1.14	BDL	0.57	1.14
Ra-226 + Ra-228 (pCi/L)	5	N/A	15 ± 1	19 ± 2	19 ± 2	10.8	14.9	19.0
Selenium	0.05	N/A	< 0.010	< 0.010	< 0.010	BDL	BDL	BDL
Thallium	0.002	N/A	< 0.010	< 0.010	< 0.010	BDL	BDL	BDL
Uranium (ug/l)	30	N/A	21	8.6	21	22	21.5	21.0

Notes:

Concentrate from Plant (50-Year Projection) reflects assumed increases in conentrate concentrations (from Appendix C) due to degrading source water quality

BDL = Below Detection Limit

Equals or Exceeds Primary Drinking Water Standard