

TABLE A-3
2019 UPDATED GROUNDWATER MODEL
RESULTS FOR SPECIFIED INJECTION SCENARIOS
FLORENCE COPPER PROJECT
FLORENCE, ARIZONA

	Simulation Time	Number of Wells Injecting	Injection Rate (GPM)	Number of Wells Pumping	Pumping Rate	Porosity of Oxide Layers (%) *	Fault Zone Porosity (%) **	Fault Zone Hydraulic Conductivity (ft/day) ***	Maximum Distance of Horizontal Fluid Migration (feet)
NW Well	48 hours	1	60	0	0	8	10	6	138
	30 days	1	60	0	0	8	10	6	250
NE Well	48 hours	1	33	0	0	8	10	6	66
	30 days	1	33	0	0	8	10	6	126
SW Well	48 hours	1	60	0	0	8	10	6	116
	30 days	1	60	0	0	8	10	6	169
SE Well	48 hours	1	60	0	0	8	10	6	131
	30 days	1	60	0	0	8	10	6	189
Sidewinder Fault Well	48 hours	1	60	0	0	8	10	6	82
	30 days	1	60	0	0	8	10	6	210

Notes:

*Porosity value was set based on neutron-density logging conducted in the Bedrock Oxide Unit.

**Fault porosity was set at 10 percent in the base model.

***Fault zone hydraulic conductivity was conservatively set at a value 10 times the average hydraulic conductivity measured in the PTF injection zone.
Aquifer tests conducted in the PTF well field included wells that penetrated the Sidewinder Fault.