

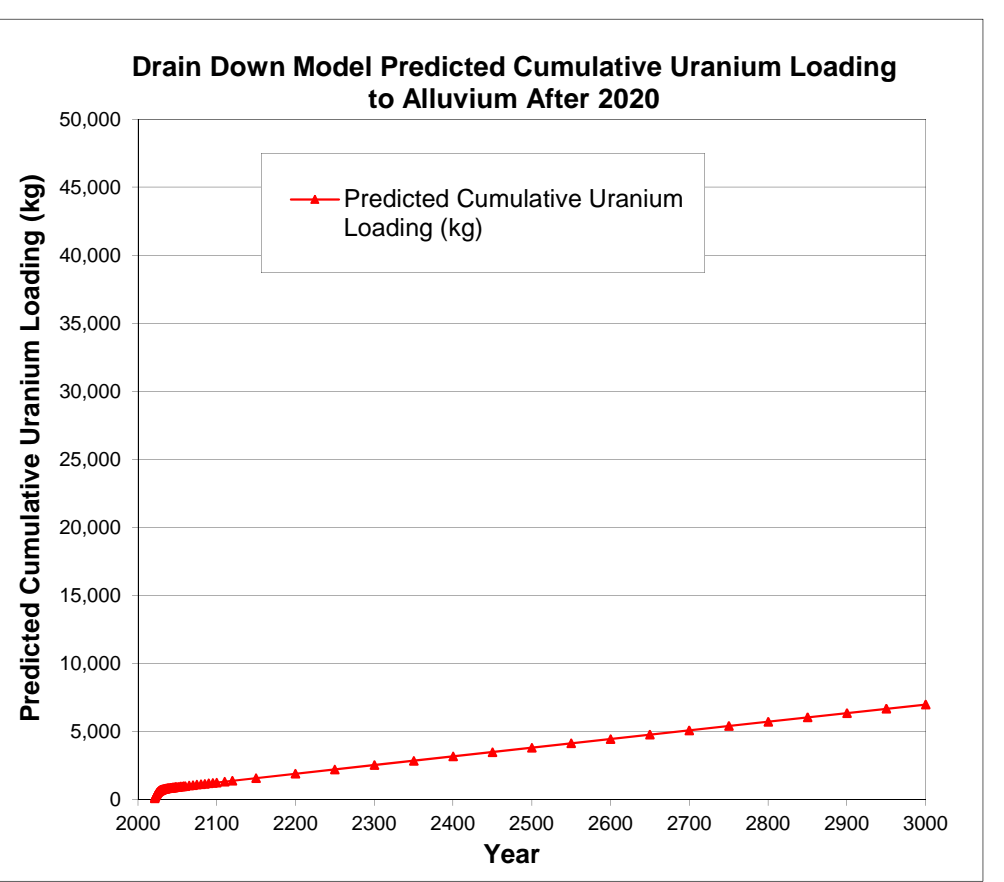
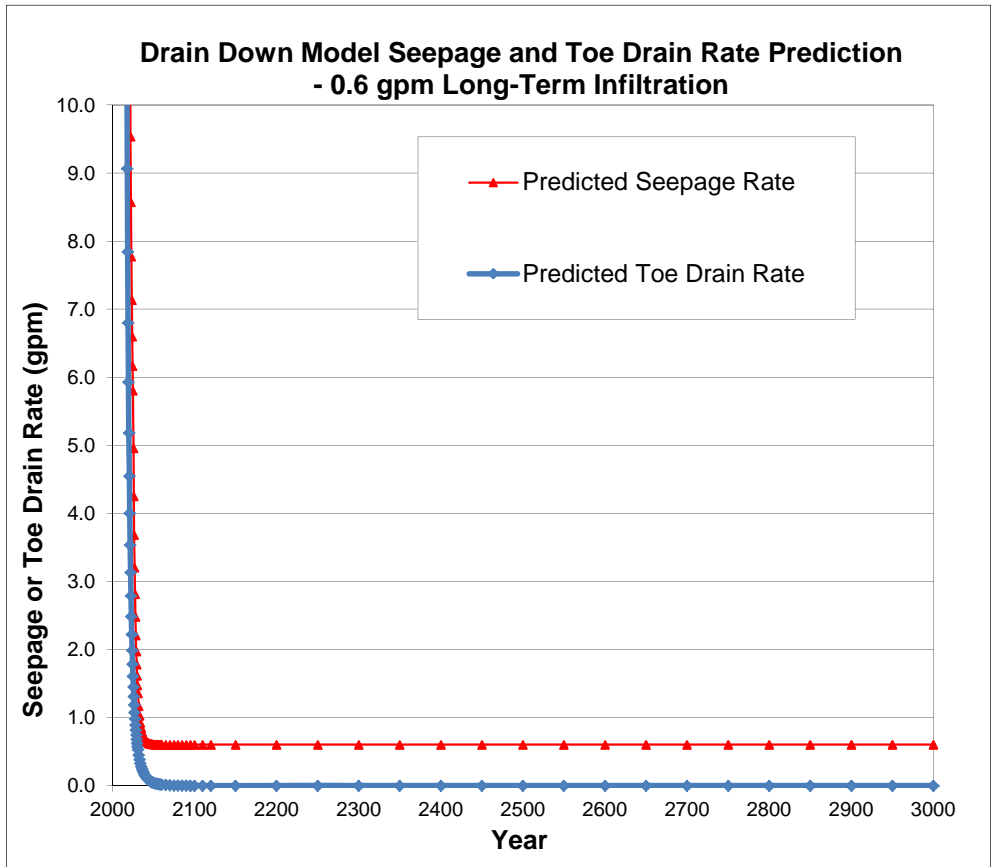
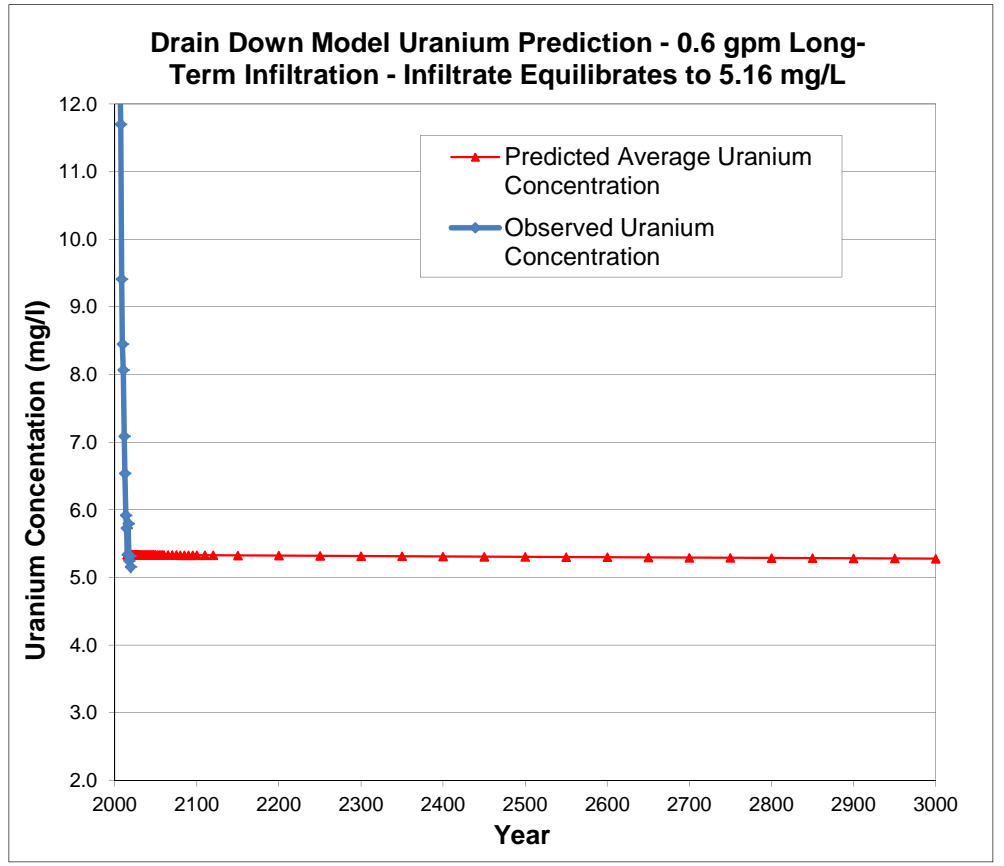
Figure 1

Drain Down Model Prediction with Infiltrate Equilibrating to 5.16 mg/L Uranium Concentration

0.6 gpm Long-Term Infiltration Rate

2015 Average U Conc. (mg/L) 5.34
 Infiltration Water U Conc. (mg/L) 5.16

Estimated Drain Down and LTP Uranium Concentration					
Year	Average Uranium Conc. (mg/l)	U Loading Seepage plus Toe Drain (kg/yr)	Infiltration Rate (gpm)	Seepage Rate (gpm)	Toe Drain Rate (gpm)
2012.5	6.54	2109.2	2.0	139.0	23.0
2013.5	5.92	2027.1	2.0	154.0	18.0
2014.5	5.73	2486.7	2.0	200.0	18.0
2015	5.34	1852.1	4.0	150.0	24.2
2015.5	5.34	1426.2	4.0	113.9	20.3
2016	5.34	1108.4	4.0	87.2	17.1
2016.5	5.34	875.1	4.0	67.9	14.5
2017	5.34	697.8	4.0	53.3	12.3
2017.5	5.34	565.1	4.0	42.6	10.6
2018	5.34	461.3	4.0	34.3	9.1
2018.5	5.34	382.0	4.0	28.1	7.8
2019	5.34	318.8	4.0	23.2	6.8
2019.5	5.34	269.7	4.0	19.4	5.9
2020	5.34	229.9	4.0	16.5	5.2
2020.5	5.34	198.3	4.0	14.1	4.6
2021	5.34	172.5	4.0	12.2	4.0
2021.5	5.34	151.8	4.0	10.8	3.5
2022	5.34	134.6	4.0	9.5	3.1
2022.5	5.34	120.7	4.0	8.6	2.8
2023	5.34	109.0	4.0	7.8	2.5
2023.5	5.34	99.4	4.0	7.1	2.2
2024	5.34	91.2	4.0	6.6	2.0
2024.5	5.34	84.5	4.0	6.2	1.8
2025	5.34	78.7	0.6	5.8	1.6
2025.5	5.34	68.1	0.6	5.0	1.5
2026	5.34	59.1	0.6	4.3	1.3
2026.5	5.34	51.8	0.6	3.7	1.2
2027	5.34	45.5	0.6	3.2	1.1
2027.5	5.34	40.3	0.6	2.8	1.0
2028	5.34	35.9	0.6	2.5	0.9
2028.5	5.34	32.1	0.6	2.2	0.8
2029	5.34	28.9	0.6	2.0	0.7
2029.5	5.34	26.2	0.6	1.8	0.7
2030	5.34	23.8	0.6	1.6	0.6
2030.5	5.34	21.8	0.6	1.5	0.6
2031	5.34	20.0	0.6	1.4	0.5
2032	5.34	17.2	0.6	1.2	0.4
2033	5.33	15.0	0.6	1.0	0.4
2034	5.33	13.3	0.6	0.9	0.3
2035	5.33	12.0	0.6	0.8	0.3
2036	5.33	11.0	0.6	0.8	0.2
2037	5.33	10.2	0.6	0.7	0.2
2038	5.33	9.5	0.6	0.7	0.2
2039	5.33	9.0	0.6	0.7	0.2
2040	5.33	8.6	0.6	0.7	0.1
2041	5.33	8.3	0.6	0.7	0.1
2042	5.33	8.0	0.6	0.6	0.1
2043	5.33	7.8	0.6	0.6	0.1
2044	5.33	7.6	0.6	0.6	0.1
2045	5.33	7.4	0.6	0.6	0.1
2046	5.33	7.3	0.6	0.6	0.1
2047	5.33	7.2	0.6	0.6	0.1
2048	5.33	7.1	0.6	0.6	0.1
2049	5.33	7.0	0.6	0.6	0.1
2050	5.33	6.9	0.6	0.6	0.0
2052	5.33	6.8	0.6	0.6	0.0
2054	5.33	6.8	0.6	0.6	0.0
2056	5.33	6.7	0.6	0.6	0.0
2058	5.33	6.6	0.6	0.6	0.0
2060	5.33	6.6	0.6	0.6	0.0
2065	5.33	6.5	0.6	0.6	0.0
2070	5.33	6.5	0.6	0.6	0.0
2075	5.33	6.5	0.6	0.6	0.0
2080	5.33	6.5	0.6	0.6	0.0
2085	5.33	6.4	0.6	0.6	0.0
2090	5.33	6.4	0.6	0.6	0.0
2095	5.33	6.4	0.6	0.6	0.0
2100	5.33	6.4	0.6	0.6	0.0
2110	5.33	6.4	0.6	0.6	0.0
2120	5.33	6.4	0.6	0.6	0.0
2150	5.33	6.4	0.6	0.6	0.0
2200	5.32	6.4	0.6	0.6	0.0
2250	5.32	6.4	0.6	0.6	0.0
2300	5.32	6.4	0.6	0.6	0.0
2350	5.31	6.4	0.6	0.6	0.0
2400	5.31	6.4	0.6	0.6	0.0
2450	5.31	6.4	0.6	0.6	0.0
2500	5.30	6.4	0.6	0.6	0.0
2550	5.30	6.4	0.6	0.6	0.0
2600	5.30	6.4	0.6	0.6	0.0
2650	5.30	6.4	0.6	0.6	0.0
2700	5.29	6.4	0.6	0.6	0.0
2750	5.29	6.4	0.6	0.6	0.0
2800	5.29	6.4	0.6	0.6	0.0
2850	5.29	6.3	0.6	0.6	0.0
2900	5.28	6.3	0.6	0.6	0.0
2950	5.28	6.3	0.6	0.6	0.0
3000	5.28	6.3	0.6	0.6	0.0
3020	5.28	6.3	0.6	0.6	0.0
3050	5.28	6.3	0.6	0.6	0.0

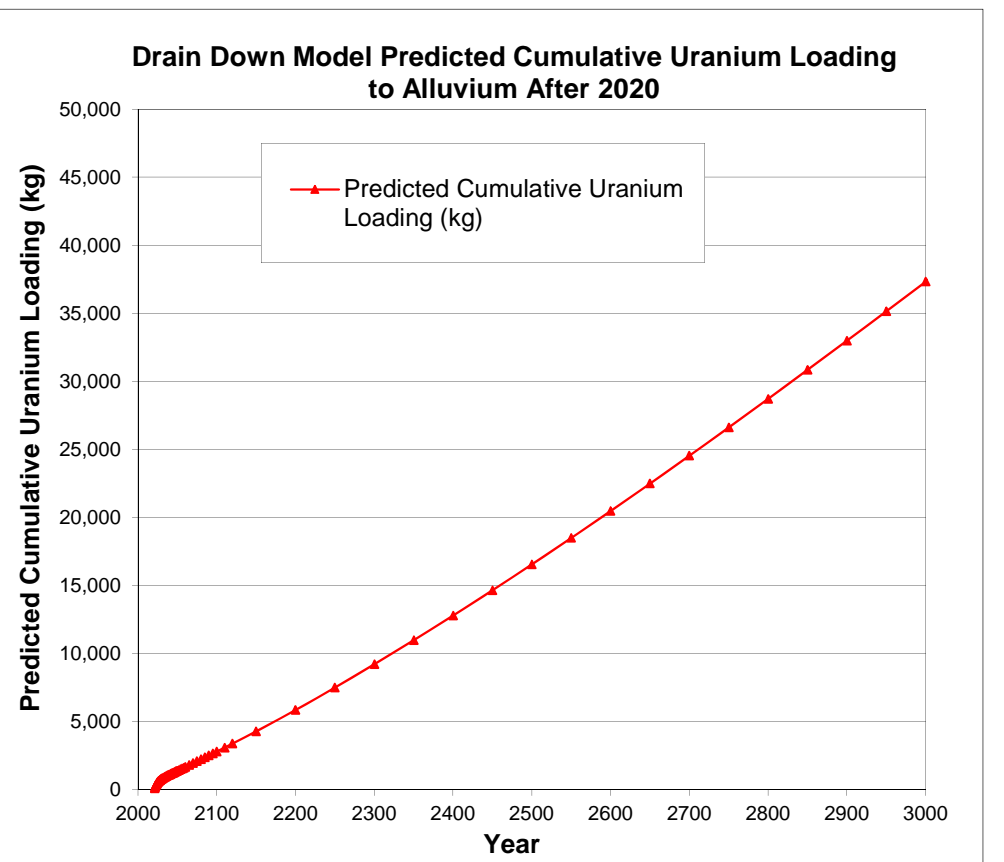
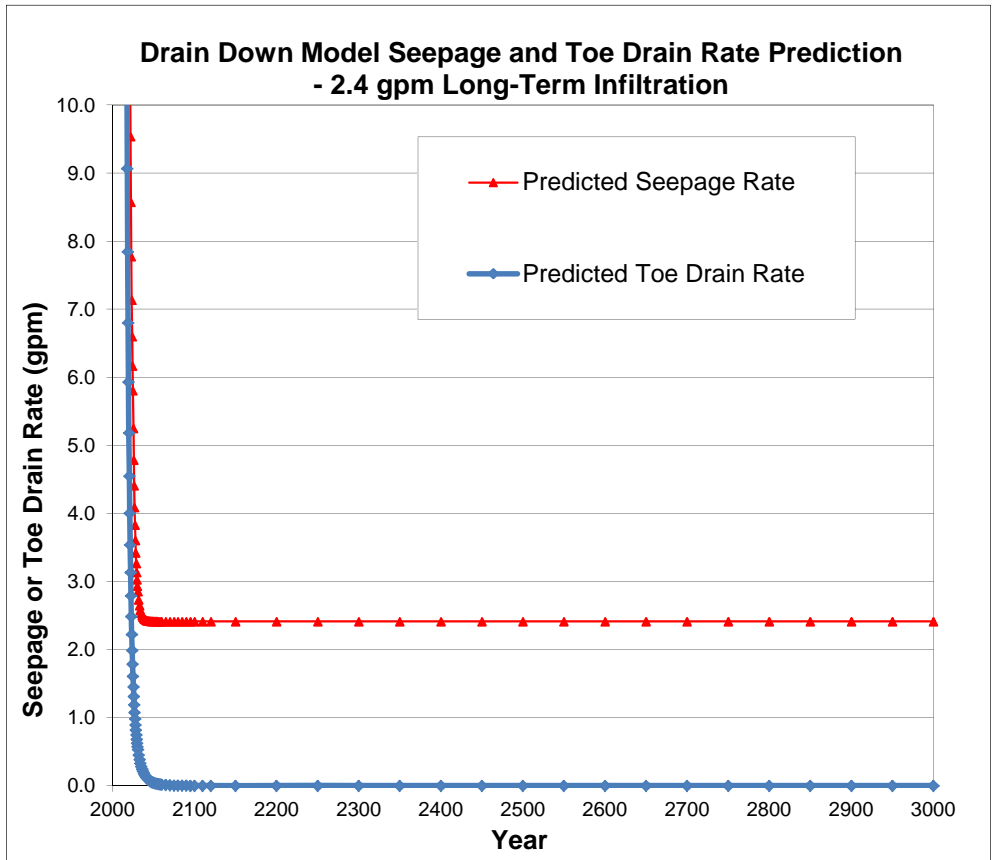
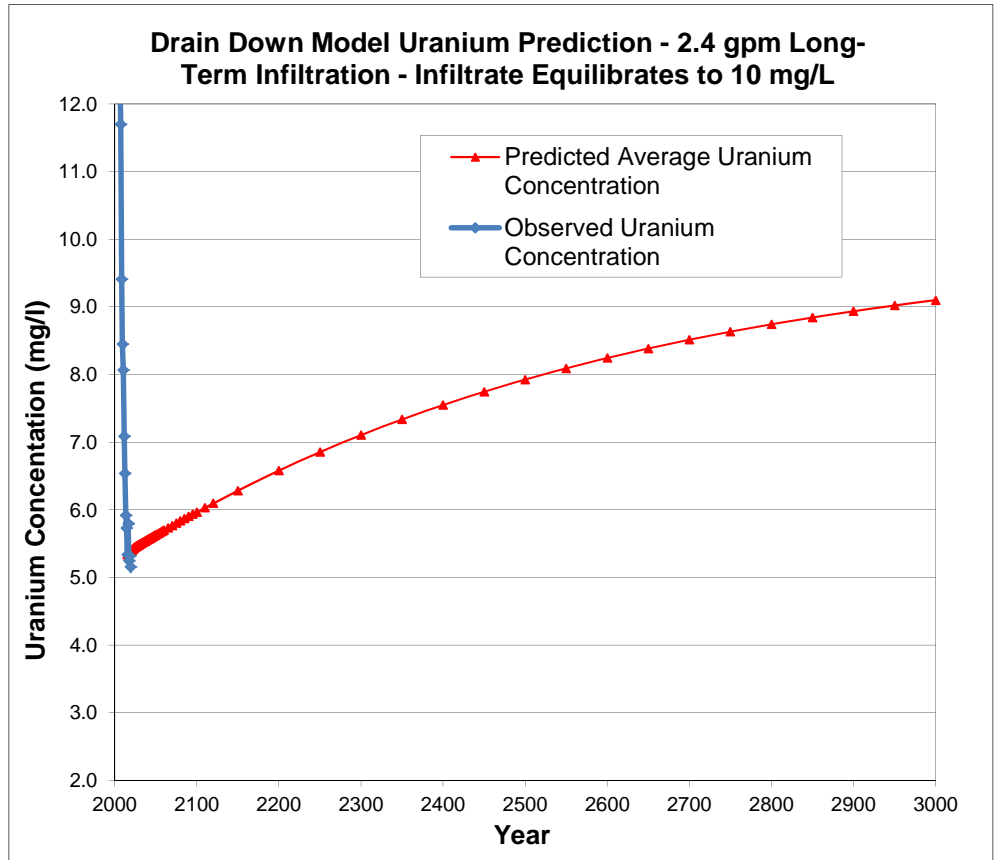


Note: Yellow shading indicates pumping from toe drain sumps will likely be discontinued at low rates.
 Gray shading indicates values taken from measured/estimated water volume change and uranium concentration.

Figure 2
Drain Down Model Prediction with Infiltrate Equilibrating to 10 mg/L Uranium Concentration

2.4 gpm Long-Term Infiltration Rate
 2015 Average U Conc. (mg/L) 5.34
 Infiltration Water U Conc. (mg/L) 10

Estimated Drain Down and LTP Uranium Concentration					
Year	Average Uranium Conc. (mg/l)	U Loading Seepage plus Toe Drain (kg/yr)	Infiltration Rate (gpm)	Seepage Rate (gpm)	Toe Drain Rate (gpm)
2012.5	6.54	2109.2	2.0	139.0	23.0
2013.5	5.92	2027.1	2.0	154.0	18.0
2014.5	5.73	2486.7	2.0	200.0	18.0
2015	5.34	1852.1	4.0	150.0	24.2
2015.5	5.35	1427.7	4.0	113.9	20.3
2016	5.35	1110.7	4.0	87.2	17.1
2016.5	5.36	877.8	4.0	67.9	14.5
2017	5.36	700.7	4.0	53.3	12.3
2017.5	5.37	568.0	4.0	42.6	10.6
2018	5.37	464.2	4.0	34.3	9.1
2018.5	5.38	384.9	4.0	28.1	7.8
2019	5.38	321.6	4.0	23.2	6.8
2019.5	5.39	272.4	4.0	19.4	5.9
2020	5.40	232.4	4.0	16.5	5.2
2020.5	5.40	200.7	4.0	14.1	4.6
2021	5.41	174.8	4.0	12.2	4.0
2021.5	5.41	154.0	4.0	10.8	3.5
2022	5.42	136.7	4.0	9.5	3.1
2022.5	5.43	122.7	4.0	8.6	2.8
2023	5.43	110.9	4.0	7.8	2.5
2023.5	5.44	101.3	4.0	7.1	2.2
2024	5.44	93.1	4.0	6.6	2.0
2024.5	5.45	86.3	4.0	6.2	1.8
2025	5.46	80.5	2.4	5.8	1.6
2025.5	5.46	72.8	2.4	5.3	1.5
2026	5.46	66.3	2.4	4.8	1.3
2026.5	5.47	60.9	2.4	4.4	1.2
2027	5.47	56.3	2.4	4.1	1.1
2027.5	5.47	52.4	2.4	3.8	1.0
2028	5.48	49.1	2.4	3.6	0.9
2028.5	5.48	46.2	2.4	3.4	0.8
2029	5.48	43.8	2.4	3.3	0.7
2029.5	5.49	41.7	2.4	3.1	0.7
2030	5.49	39.9	2.4	3.0	0.6
2030.5	5.50	38.4	2.4	2.9	0.6
2031	5.50	37.0	2.4	2.9	0.5
2032	5.51	34.9	2.4	2.7	0.4
2033	5.51	33.2	2.4	2.6	0.4
2034	5.52	32.0	2.4	2.6	0.3
2035	5.53	31.0	2.4	2.5	0.3
2036	5.53	30.3	2.4	2.5	0.2
2037	5.54	29.7	2.4	2.5	0.2
2038	5.55	29.2	2.4	2.5	0.2
2039	5.56	28.9	2.4	2.4	0.2
2040	5.56	28.6	2.4	2.4	0.1
2041	5.57	28.4	2.4	2.4	0.1
2042	5.58	28.2	2.4	2.4	0.1
2043	5.58	28.0	2.4	2.4	0.1
2044	5.59	27.9	2.4	2.4	0.1
2045	5.60	27.8	2.4	2.4	0.1
2046	5.61	27.8	2.4	2.4	0.1
2047	5.61	27.7	2.4	2.4	0.1
2048	5.62	27.7	2.4	2.4	0.1
2049	5.63	27.6	2.4	2.4	0.1
2050	5.63	27.6	2.4	2.4	0.0
2052	5.65	27.6	2.4	2.4	0.0
2054	5.66	27.6	2.4	2.4	0.0
2056	5.68	27.6	2.4	2.4	0.0
2058	5.69	27.6	2.4	2.4	0.0
2060	5.70	27.6	2.4	2.4	0.0
2065	5.74	27.7	2.4	2.4	0.0
2070	5.77	27.8	2.4	2.4	0.0
2075	5.81	28.0	2.4	2.4	0.0
2080	5.84	28.1	2.4	2.4	0.0
2085	5.87	28.2	2.4	2.4	0.0
2090	5.91	28.4	2.4	2.4	0.0
2095	5.94	28.5	2.4	2.4	0.0
2100	5.97	28.7	2.4	2.4	0.0
2110	6.03	29.0	2.4	2.4	0.0
2120	6.10	29.3	2.4	2.4	0.0
2150	6.29	30.2	2.4	2.4	0.0
2200	6.58	31.6	2.4	2.4	0.0
2250	6.86	32.9	2.4	2.4	0.0
2300	7.11	34.1	2.4	2.4	0.0
2350	7.34	35.3	2.4	2.4	0.0
2400	7.55	36.3	2.4	2.4	0.0
2450	7.75	37.2	2.4	2.4	0.0
2500	7.93	38.1	2.4	2.4	0.0
2550	8.09	38.9	2.4	2.4	0.0
2600	8.25	39.6	2.4	2.4	0.0
2650	8.39	40.3	2.4	2.4	0.0
2700	8.52	40.9	2.4	2.4	0.0
2750	8.63	41.5	2.4	2.4	0.0
2800	8.74	42.0	2.4	2.4	0.0
2850	8.84	42.5	2.4	2.4	0.0
2900	8.94	42.9	2.4	2.4	0.0
2950	9.02	43.3	2.4	2.4	0.0
3000	9.10	43.7	2.4	2.4	0.0
3020	9.13	43.9	2.4	2.4	0.0
3050	9.17	44.1	2.4	2.4	0.0



Note: Yellow shading indicates pumping from toe drain sumps will likely be discontinued at low rates.
 Gray shading indicates values taken from measured/estimated water volume change and uranium concentration.

Figure 3

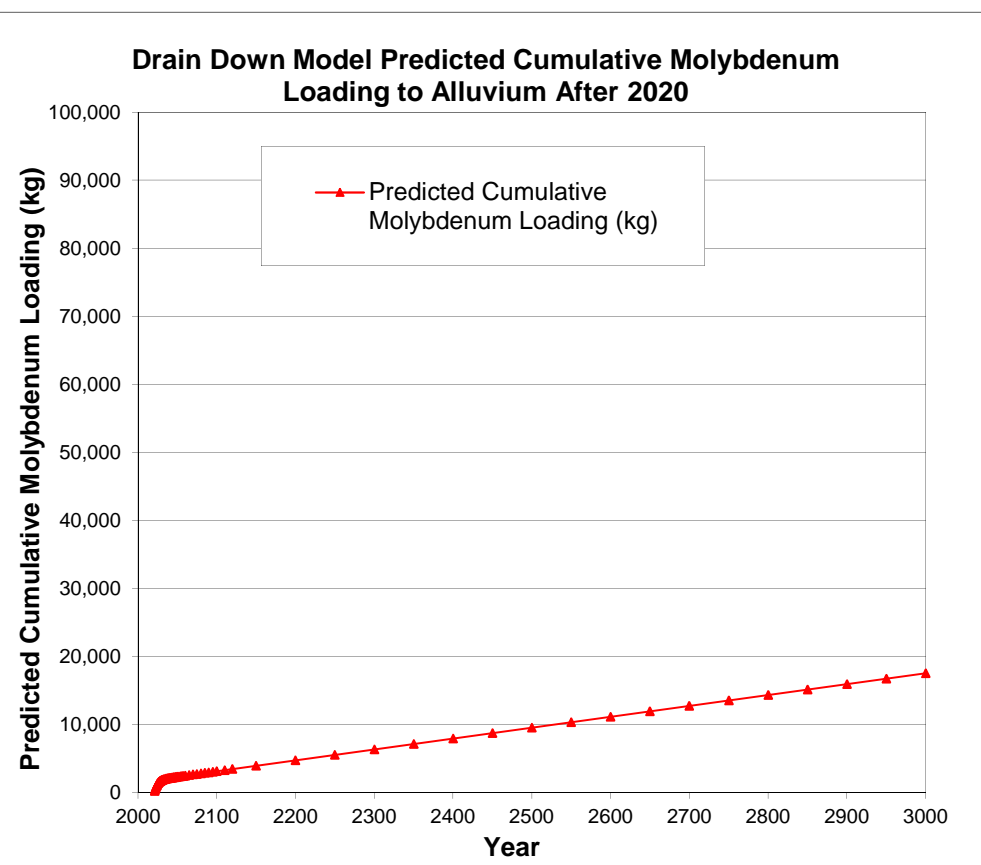
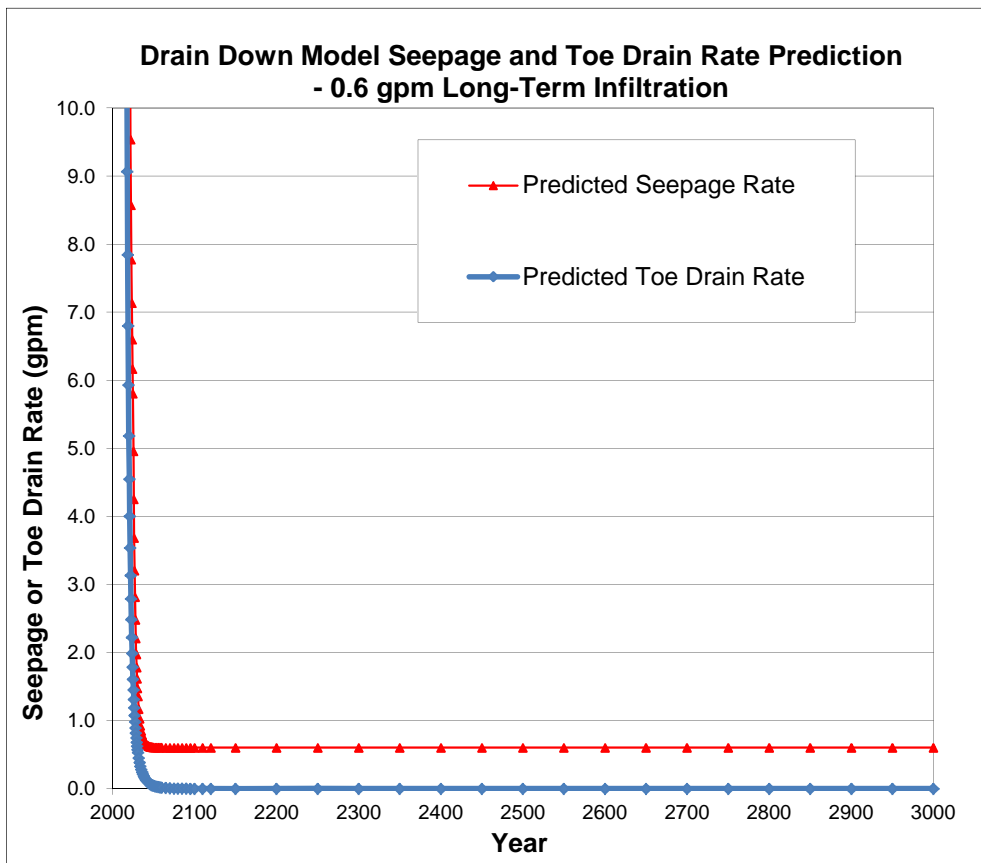
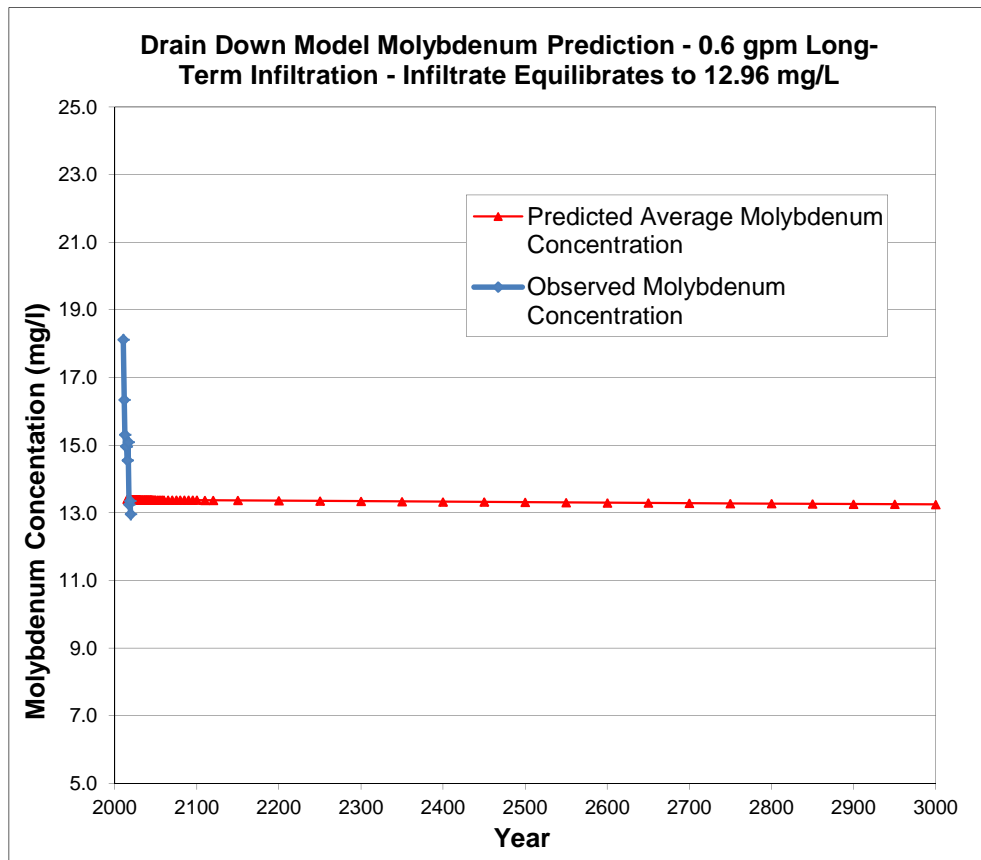
Drain Down Model Prediction with Infiltrate Equilibrating to 12.96 mg/L of Molybdenum Concentration

0.6 gpm Long-Term Infiltration Rate

2015 Starting Mo Concentration (mg/L) 13.40

Infiltration Water Mo Conc. (mg/L) 12.96

Estimated Drain Down and LTP Molybdenum Concentration					
Year	Average Molybdenum Conc. (mg/l)	Mo Loading Seepage plus Toe Drain (kg/yr)	Infiltration Rate (gpm)	Seepage Rate (gpm)	Toe Drain Rate (gpm)
2012.5	15.31	4937.5	2.0	139.0	23.0
2013.5	14.97	5125.9	2.0	154.0	18.0
2014.5	14.96	6492.4	2.0	200.0	18.0
2015	13.40	4647.7	4.0	150.0	24.2
2015.5	13.40	3578.9	4.0	113.9	20.3
2016	13.40	2781.5	4.0	87.2	17.1
2016.5	13.40	2196.0	4.0	67.9	14.5
2017	13.40	1751.0	4.0	53.3	12.3
2017.5	13.40	1417.9	4.0	42.6	10.6
2018	13.40	1157.5	4.0	34.3	9.1
2018.5	13.40	958.6	4.0	28.1	7.8
2019	13.40	800.1	4.0	23.2	6.8
2019.5	13.40	676.8	4.0	19.4	5.9
2020	13.39	577.0	4.0	16.5	5.2
2020.5	13.39	497.7	4.0	14.1	4.6
2021	13.39	432.9	4.0	12.2	4.0
2021.5	13.39	381.1	4.0	10.8	3.5
2022	13.39	337.9	4.0	9.5	3.1
2022.5	13.39	302.9	4.0	8.6	2.8
2023	13.39	273.5	4.0	7.8	2.5
2023.5	13.39	249.4	4.0	7.1	2.2
2024	13.39	229.0	4.0	6.6	2.0
2024.5	13.39	212.0	4.0	6.2	1.8
2025	13.39	197.6	4.0	5.8	1.6
2025.5	13.39	170.9	0.6	5.0	1.5
2026	13.39	148.4	0.6	4.3	1.3
2026.5	13.39	129.9	0.6	3.7	1.2
2027	13.39	114.2	0.6	3.2	1.1
2027.5	13.39	101.2	0.6	2.8	1.0
2028	13.39	90.0	0.6	2.5	0.9
2028.5	13.39	80.6	0.6	2.2	0.8
2029	13.39	72.5	0.6	2.0	0.7
2029.5	13.39	65.7	0.6	1.8	0.7
2030	13.39	59.7	0.6	1.6	0.6
2030.5	13.39	54.7	0.6	1.5	0.6
2031	13.39	50.3	0.6	1.4	0.5
2032	13.39	43.1	0.6	1.2	0.4
2033	13.39	37.6	0.6	1.0	0.4
2034	13.39	33.4	0.6	0.9	0.3
2035	13.39	30.2	0.6	0.8	0.3
2036	13.39	27.6	0.6	0.8	0.2
2037	13.39	25.6	0.6	0.7	0.2
2038	13.39	24.0	0.6	0.7	0.2
2039	13.39	22.7	0.6	0.7	0.2
2040	13.39	21.6	0.6	0.7	0.1
2041	13.39	20.8	0.6	0.7	0.1
2042	13.39	20.1	0.6	0.6	0.1
2043	13.39	19.5	0.6	0.6	0.1
2044	13.39	19.0	0.6	0.6	0.1
2045	13.39	18.6	0.6	0.6	0.1
2046	13.39	18.3	0.6	0.6	0.1
2047	13.39	18.0	0.6	0.6	0.1
2048	13.39	17.8	0.6	0.6	0.1
2049	13.38	17.6	0.6	0.6	0.1
2050	13.38	17.4	0.6	0.6	0.0
2052	13.38	17.2	0.6	0.6	0.0
2054	13.38	17.0	0.6	0.6	0.0
2056	13.38	16.8	0.6	0.6	0.0
2058	13.38	16.7	0.6	0.6	0.0
2060	13.38	16.6	0.6	0.6	0.0
2065	13.38	16.4	0.6	0.6	0.0
2070	13.38	16.3	0.6	0.6	0.0
2075	13.38	16.2	0.6	0.6	0.0
2080	13.38	16.2	0.6	0.6	0.0
2085	13.38	16.2	0.6	0.6	0.0
2090	13.38	16.1	0.6	0.6	0.0
2095	13.38	16.1	0.6	0.6	0.0
2100	13.38	16.1	0.6	0.6	0.0
2110	13.37	16.1	0.6	0.6	0.0
2120	13.37	16.1	0.6	0.6	0.0
2150	13.37	16.1	0.6	0.6	0.0
2200	13.36	16.0	0.6	0.6	0.0
2250	13.35	16.0	0.6	0.6	0.0
2300	13.34	16.0	0.6	0.6	0.0
2350	13.34	16.0	0.6	0.6	0.0
2400	13.33	16.0	0.6	0.6	0.0
2450	13.32	16.0	0.6	0.6	0.0
2500	13.31	16.0	0.6	0.6	0.0
2550	13.31	16.0	0.6	0.6	0.0
2600	13.30	16.0	0.6	0.6	0.0
2650	13.29	16.0	0.6	0.6	0.0
2700	13.29	16.0	0.6	0.6	0.0
2750	13.28	15.9	0.6	0.6	0.0
2800	13.27	15.9	0.6	0.6	0.0
2850	13.27	15.9	0.6	0.6	0.0
2900	13.26	15.9	0.6	0.6	0.0
2950	13.25	15.9	0.6	0.6	0.0
3000	13.25	15.9	0.6	0.6	0.0
3020	13.25	15.9	0.6	0.6	0.0
3050	13.24	15.9	0.6	0.6	0.0



Note: Yellow shading indicates pumping from toe drain sumps will likely be discontinued at low rates.
 Gray shading indicates values taken from measured/estimated water volume change and molybdenum concentration

Figure 4

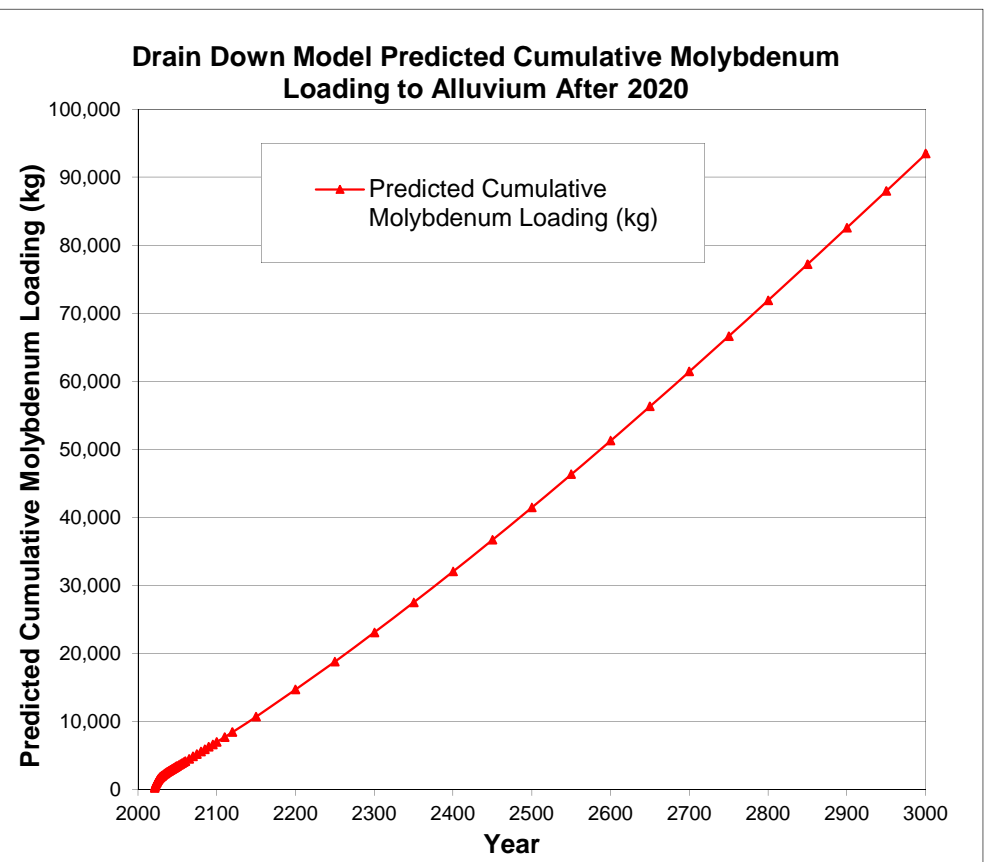
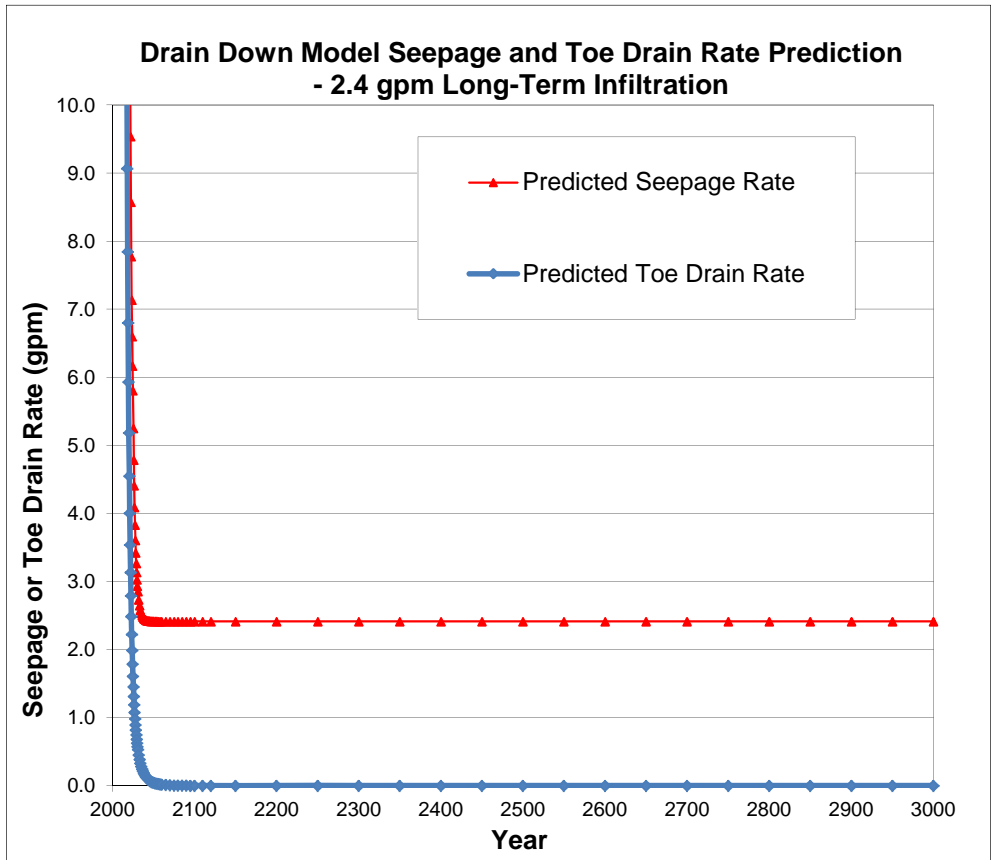
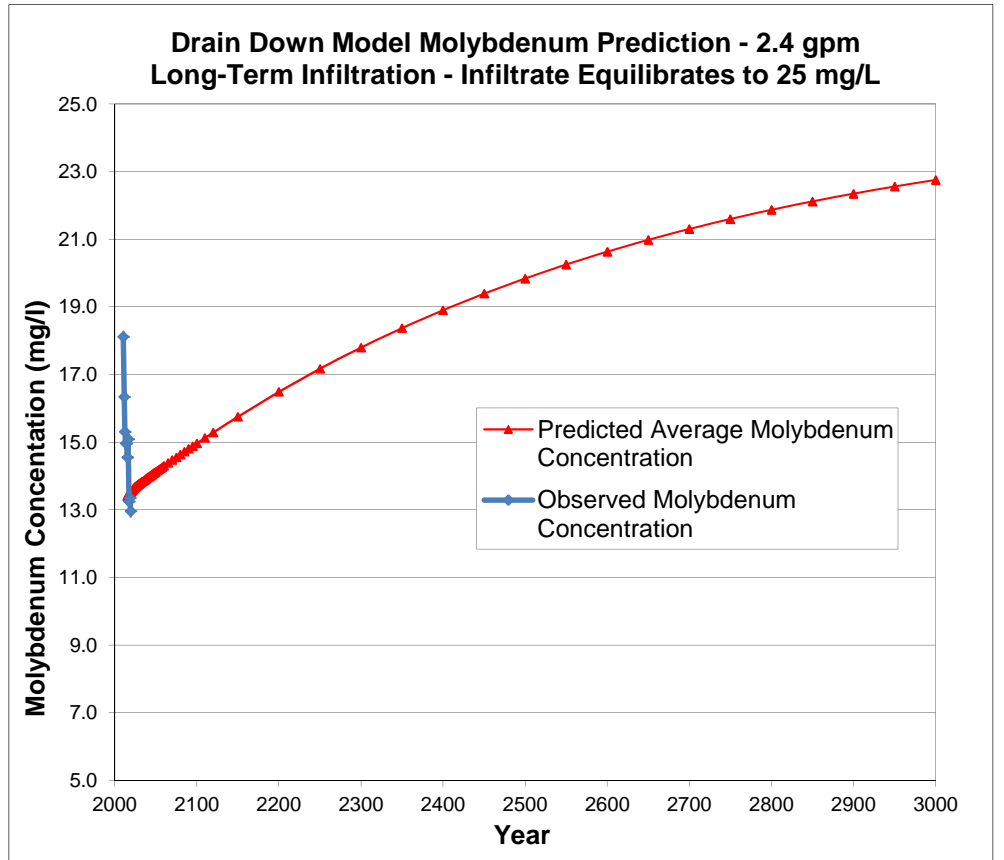
Drain Down Model Prediction with Infiltrate Equilibrating to 25 mg/L of Molybdenum Concentration

2.4 gpm Long-Term Infiltration Rate

2015 Starting Mo Concentration (mg/L) 13.40

Infiltration Water Mo Conc. (mg/L) 25

Estimated Drain Down and LTP Molybdenum Concentration					
Year	Average Molybdenum Conc. (mg/l)	Mo Loading Seepage plus Toe Drain (kg/yr)	Infiltration Rate (gpm)	Seepage Rate (gpm)	Toe Drain Rate (gpm)
2012.5	15.31	4937.5	2.0	139.0	23.0
2013.5	14.97	5125.9	2.0	154.0	18.0
2014.5	14.96	6492.4	2.0	200.0	18.0
2015	13.40	4647.7	4.0	150.0	24.2
2015.5	13.41	3582.5	4.0	113.9	20.3
2016	13.43	2787.1	4.0	87.2	17.1
2016.5	13.44	2202.7	4.0	67.9	14.5
2017	13.45	1758.2	4.0	53.3	12.3
2017.5	13.47	1425.4	4.0	42.6	10.6
2018	13.48	1164.9	4.0	34.3	9.1
2018.5	13.50	965.8	4.0	28.1	7.8
2019	13.51	807.0	4.0	23.2	6.8
2019.5	13.53	683.4	4.0	19.4	5.9
2020	13.54	583.2	4.0	16.5	5.2
2020.5	13.55	503.6	4.0	14.1	4.6
2021	13.57	438.6	4.0	12.2	4.0
2021.5	13.58	386.5	4.0	10.8	3.5
2022	13.60	343.1	4.0	9.5	3.1
2022.5	13.61	307.9	4.0	8.6	2.8
2023	13.63	278.3	4.0	7.8	2.5
2023.5	13.64	254.1	4.0	7.1	2.2
2024	13.66	233.6	4.0	6.6	2.0
2024.5	13.67	216.5	4.0	6.2	1.8
2025	13.69	202.0	2.4	5.8	1.6
2025.5	13.70	182.8	2.4	5.3	1.5
2026	13.71	166.4	2.4	4.8	1.3
2026.5	13.71	152.8	2.4	4.4	1.2
2027	13.72	141.2	2.4	4.1	1.1
2027.5	13.73	131.5	2.4	3.8	1.0
2028	13.74	123.1	2.4	3.6	0.9
2028.5	13.75	116.0	2.4	3.4	0.8
2029	13.76	109.9	2.4	3.3	0.7
2029.5	13.77	104.7	2.4	3.1	0.7
2030	13.78	100.2	2.4	3.0	0.6
2030.5	13.79	96.3	2.4	2.9	0.6
2031	13.80	92.9	2.4	2.9	0.5
2032	13.81	87.5	2.4	2.7	0.4
2033	13.83	83.4	2.4	2.6	0.4
2034	13.85	80.2	2.4	2.6	0.3
2035	13.87	77.8	2.4	2.5	0.3
2036	13.88	75.9	2.4	2.5	0.2
2037	13.90	74.5	2.4	2.5	0.2
2038	13.92	73.3	2.4	2.5	0.2
2039	13.94	72.4	2.4	2.4	0.2
2040	13.96	71.7	2.4	2.4	0.1
2041	13.97	71.1	2.4	2.4	0.1
2042	13.99	70.7	2.4	2.4	0.1
2043	14.01	70.3	2.4	2.4	0.1
2044	14.03	70.0	2.4	2.4	0.1
2045	14.04	69.8	2.4	2.4	0.1
2046	14.06	69.6	2.4	2.4	0.1
2047	14.08	69.5	2.4	2.4	0.1
2048	14.10	69.4	2.4	2.4	0.1
2049	14.11	69.3	2.4	2.4	0.1
2050	14.13	69.2	2.4	2.4	0.0
2052	14.17	69.1	2.4	2.4	0.0
2054	14.20	69.1	2.4	2.4	0.0
2056	14.23	69.1	2.4	2.4	0.0
2058	14.27	69.2	2.4	2.4	0.0
2060	14.30	69.2	2.4	2.4	0.0
2065	14.39	69.5	2.4	2.4	0.0
2070	14.47	69.8	2.4	2.4	0.0
2075	14.56	70.1	2.4	2.4	0.0
2080	14.64	70.5	2.4	2.4	0.0
2085	14.72	70.8	2.4	2.4	0.0
2090	14.81	71.2	2.4	2.4	0.0
2095	14.89	71.6	2.4	2.4	0.0
2100	14.97	72.0	2.4	2.4	0.0
2110	15.13	72.7	2.4	2.4	0.0
2120	15.29	73.5	2.4	2.4	0.0
2150	15.75	75.7	2.4	2.4	0.0
2200	16.49	79.2	2.4	2.4	0.0
2250	17.17	82.5	2.4	2.4	0.0
2300	17.80	85.5	2.4	2.4	0.0
2350	18.38	88.3	2.4	2.4	0.0
2400	18.91	90.8	2.4	2.4	0.0
2450	19.39	93.2	2.4	2.4	0.0
2500	19.84	95.3	2.4	2.4	0.0
2550	20.25	97.3	2.4	2.4	0.0
2600	20.63	99.1	2.4	2.4	0.0
2650	20.98	100.8	2.4	2.4	0.0
2700	21.30	102.3	2.4	2.4	0.0
2750	21.60	103.8	2.4	2.4	0.0
2800	21.87	105.1	2.4	2.4	0.0
2850	22.12	106.3	2.4	2.4	0.0
2900	22.35	107.4	2.4	2.4	0.0
2950	22.56	108.4	2.4	2.4	0.0
3000	22.76	109.3	2.4	2.4	0.0
3020	22.83	109.7	2.4	2.4	0.0
3050	22.94	110.2	2.4	2.4	0.0



Note: Yellow shading indicates pumping from toe drain sumps will likely be discontinued at low rates.
 Gray shading indicates values taken from measured/estimated water volume change and molybdenum concentration