

Appendix 16

Meadowbank Predicted Water Quantity and Quality (2024)

2024 Comparison of predicted pit water quantity and quality to the measured water quantity and quality

LIFE OF MINE YEAR 15

Water Quantity (Surface Runoff and Infiltration)

Pits**	Predicted (m3)	Measured (m3)	% Difference between predicted vs. measured	Predicted Model Year
Portage	167,478	281,531	68%	2023
Bay Goose	343,657	128,189	-63%	2023
Vault Pit^	350,800	1033,277	195%	^

^predicted volumes from August 2007 – Waste and Water Management Plan – Meadowbank Gold Project, Table 12.2.

**For Portage and Bay Goose, values include surface runoff and infiltration into the pit based on the water balance considered in the IRP updated (2019).

Vault Pit Sumps Water Quality Year 15

Parameters	Units	Probable Scenario Predicted Model Year 13*	Possible Poor end Scenario Predicted Model Year 13*	Annual Average Water Quality Forecast Value Model Year 2024***	Lower 25% Centile Water Quality Forecasted Value***	Measured		% Difference Between predicted vs measured-mean		% Difference between predicted vs measured - Lower 25th percentile +		% Difference between predicted vs measured-mean		% Difference between predicted vs measured-Lower 25th percentile +		CCME Guidelines**	MDMER Schedule 4, Table 2**	Water License Discharge to Wally Lake**
						Mean	Lower 25th centile	Probable	Possible Poor	Probable	Possible Poor	Annual Average	Lower 25th centile	Annual Average	Lower 25th centile	Long Term, Based on 3PL quality	Max, Monthly Mean	Max Avg. Conc.
pH	-	6.7	6.8	-	-	7.74	7.66	15%	14%	14%	13%	-	-	-	-	6.5 to 9.0	6.0 to 9.5	6.0 to 9.0
Alkalinity	mg CaCO ₃ /L	9	12	-	-	57.00	52.00	533%	375%	478%	333%	-	-	-	-	-	-	-
Ammonia (unionized)	mg N/L	0.00008	0.00015	-	-	-	-	-	-	-	-	-	-	-	-	0.016	-	-
Ammonia nitrogen	mg N/L	0.12	0.19	0.1	0.1	<0.05	<0.05	-58%	-74%	-58%	-74%	-23%	-23%	-23%	-23%	1.83	-	20
Dissolved Arsenic	mg/L	0.00039	0.02	-	-	0.0035	0.0030	801%	-82%	669%	-85%	-	-	-	-	0.005	0.3	0.1
Chloride	mg/L	0.54	0.55	-	-	8.11	8.00	1402%	1375%	1381%	1355%	-	-	-	-	120	-	500
Dissolved Copper	mg/L	0.00053	0.00081	-	-	0.0015	0.0012	177%	81%	123%	46%	-	-	-	-	0.002	0.3	0.1
Fluoride	mg/L	0.038	0.041	-	-	0.12	0.11	219%	195%	189%	168%	-	-	-	-	0.12	-	-
Hardness	mg CaCO ₃ /L	12	17	-	-	120.21	106.19	902%	607%	785%	525%	-	-	-	-	-	-	-
Dissolved Lead	mg/L	0.00021	0.00021	-	-	0.000028	0.000019	-87%	-87%	-91%	-91%	-	-	-	-	0.001	0.1	0.1
Dissolved Nickel	mg/L	0.00048	0.00053	-	-	0.0018	0.0016	274%	239%	229%	198%	-	-	-	-	0.025	0.5	0.2
Dissolved Barium	mg/L	0.008	0.012	-	-	0.013	0.012	63%	9%	49%	-1%	-	-	-	-	-	-	-
Dissolved Cadmium	mg/L	0.000021	0.000026	-	-	0.0000066	<0.0000050	-69%	-75%	-76%	-81%	-	-	-	-	0.00004	-	0.002
Dissolved Iron	mg/L	0.013	0.013	-	-	0.0043	0.0034	-67%	-67%	-74%	-74%	-	-	-	-	0.3	-	-
Dissolved Mercury	mg/L	0.000031	0.000035	-	-	<0.000010	<0.000010	-68%	-71%	-68%	-71%	-	-	-	-	0.000026	-	0.0004
Dissolved Manganese	mg/L	0.00049	0.0014	-	-	0.0029	0.0019	502%	111%	286%	35%	-	-	-	-	0.23	-	-
Dissolved Molybdenum	mg/L	0.00053	0.012	-	-	0.032	0.024	5923%	166%	4447%	101%	-	-	-	-	0.073	-	-
Dissolved Selenium	mg/L	0.00041	0.0006	-	-	0.00029	0.00023	-30%	-52%	-44%	-62%	-	-	-	-	0.001	-	-
Dissolved Thallium	mg/L	0.000081	0.000088	-	-	0.000014	0.000011	-83%	-84%	-86%	-87%	-	-	-	-	0.0008	-	-
Nitrate	mg N/L	0.11	0.19	1.0	1.0	1.72	1.25	1467%	807%	1036%	558%	67%	67%	21%	21%	2.94	-	50
Sulphate	mg/L	4	7	-	-	65.89	60.00	1547%	841%	1400%	757%	-	-	-	-	128	-	-
Total Dissolved Solids	mg/L	21	28	-	-	184.44	165.00	778%	559%	686%	489%	-	-	-	-	-	-	-
Dissolved Zinc	mg/L	0.0022	0.0026	-	-	0.0030	0.0013	35%	14%	-40%	-49%	-	-	-	-	0.013	0.5	0.2

Phaser Pit Sumps Water Quality Year 15

Parameters	Units	Probable Scenario Predicted Model Year 13*	Possible Poor end Scenario Predicted Model Year 13*	Annual Average Water Quality Forecast Value Model Year 2024***	Lower 25% Centile Water Quality Forecasted Value***	Measured		% Difference Between predicted vs measured-mean		% Difference between predicted vs measured - Lower 25th percentile +		% Difference between predicted vs measured-mean		% Difference between predicted vs measured- Lower 25th percentile +		CCME Guidelines**	MDMER Schedule 4, Table 2**	Water License Discharge to Wally Lake**
						Mean	Lower 25th centile	Probable	Possible Poor	Probable	Possible Poor	Annual Average	Lower 25th centile	Annual Average	Lower 25th centile	Long Term, Based on 3PL quality	Max, Monthly Mean	Max Avg. Conc.
pH	-	6.7	6.8	-	-	7.72	7.67	15%	14%	14%	13%	-	-	-	-	6.5 to 9.0	6.0 to 9.5	6.0 to 9.0
Alkalinity	mg CaCO ₃ /L	9	12	-	-	46.8	42.0	420%	290%	367%	250%	-	-	-	-	-	-	-
Ammonia (unionized)	mg N/L	0.00008	0.00015	-	-	-	-	-	-	-	-	-	-	-	-	0.016	-	-
Ammonia nitrogen	mg N/L	0.12	0.19	0.1	0.1	<0.050	<0.050	-58%	-74%	-58%	-74%	0%	0%	0%	0%	1.83	-	20
Dissolved Arsenic	mg/L	0.00039	0.02	-	-	0.0019	0.0017	393%	-90%	328%	-92%	-	-	-	-	0.005	0.3	0.1
Chloride	mg/L	0.54	0.55	-	-	8.04	2.60	1389%	1362%	381%	373%	-	-	-	-	120	-	500
Dissolved Copper	mg/L	0.00053	0.00081	-	-	0.0035	0.0031	566%	336%	483%	281%	-	-	-	-	0.002	0.3	0.1
Fluoride	mg/L	0.038	0.041	-	-	0.12	0.11	216%	193%	189%	168%	-	-	-	-	0.12	-	-
Hardness	mg CaCO ₃ /L	12	17	-	-	83.5	69.9	596%	391%	483%	311%	-	-	-	-	-	-	-
Dissolved Lead	mg/L	0.00021	0.00021	-	-	0.00012	0.000071	-42%	-42%	-66%	-66%	-	-	-	-	0.001	0.1	0.1
Dissolved Nickel	mg/L	0.00048	0.00053	-	-	0.0026	0.0017	438%	387%	244%	211%	-	-	-	-	0.025	0.5	0.2
Dissolved Barium	mg/L	0.0082	0.012	-	-	0.012	0.010	50%	3%	24%	-15%	-	-	-	-	-	-	-
Dissolved Cadmium	mg/L	0.000021	0.000026	-	-	0.0000085	0.0000069	-60%	-67%	-67%	-73%	-	-	-	-	0.00004	-	0.002
Dissolved Iron	mg/L	0.013	0.013	-	-	0.014	0.0043	9%	9%	-67%	-67%	-	-	-	-	0.3	-	-
Dissolved Mercury	mg/L	0.000031	0.000035	-	-	<0.000010	<0.000010	-68%	-71%	-68%	-71%	-	-	-	-	0.000026	-	0.0004
Dissolved Manganese	mg/L	0.00049	0.0014	-	-	0.011	0.0037	2141%	684%	647%	161%	-	-	-	-	0.23	-	-
Dissolved Molybdenum	mg/L	0.00053	0.012	-	-	0.0099	0.0090	1770%	-17%	1594%	-25%	-	-	-	-	0.073	-	-
Dissolved Selenium	mg/L	0.00041	0.0006	-	-	0.00015	0.00012	-64%	-75%	-71%	-80%	-	-	-	-	0.001	-	-
Dissolved Thallium	mg/L	0.000081	0.000088	-	-	0.0000056	0.0000050	-93%	-94%	-94%	-94%	-	-	-	-	0.0008	-	-
Nitrate	mg N/L	0	0.19	0.6	0.6	0.51	0.41	-	171%	-	116%	-15%	-15%	-32%	-32%	2.94	-	50
Sulphate	mg/L	4.2	7	-	-	39.6	36.0	843%	466%	757%	414%	-	-	-	-	128	-	-
Total Dissolved Solids	mg/L	21	28	-	-	132	105	529%	371%	400%	275%	-	-	-	-	-	-	-
Dissolved Zinc	mg/L	0.0022	0.0026	-	-	0.0031	0.0016	39%	17%	-27%	-38%	-	-	-	-	0.013	0.5	0.2

Goose Island Pit Lake Water Quality Year 15

Parameters	Units	Probable Scenario Predicted Model Year 3*	Possible Poor end Scenario Predicted Model Year 3*	Annual Average Water Quality Forecast Value Model Year 2024***	Lower 25% Centile Water Quality Forecasted Value***	Measured		% Difference Between predicted vs measured- mean		% Difference between predicted vs measured - Lower 25th percentile +		% Difference between predicted vs measured- mean		% Difference between predicted vs measured- Lower 25th percentile +		CCME Guidelines**	MDMER Schedule 4, Table 2**	Water License Discharge to 3PL**
						Mean	Lower 25th centile	Probable	Possible Poor	Probable	Possible Poor	Annual Average	Lower 25th centile	Annual Average	Lower 25th centile	Long Term, Based on 3PL quality	Max, Monthly Mean	Max Avg. Conc.
pH	-	6.1	6.1	-	-	7.62	7.52	25%	25%	23%	23%	-	-	-	-	6.5 to 9.0	6.0 to 9.5	6.0 to 9.0
Alkalinity	mg CaCO ₃ /L	27	27	24.3	24.2	105.08	89.00	289%	289%	230%	230%	333%	335%	266%	268%	-	-	-
Ammonia (unionized)	mg N/L	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0.016	-	-
Ammonia nitrogen	mg N/L	5	5	2.0	2.0	19.44	4.00	289%	289%	-20%	-20%	874%	883%	100%	102%	1.83	-	16
Dissolved Arsenic	mg/L	0.002	0.002	0.0015	0.0014	0.29	0.22	14508%	14508%	10650%	10650%	20037%	20112%	14718%	14773%	0.005	0.3	0.3
Chloride	mg/L	440	440	12.8	12.7	81.33	66.00	-82%	-82%	-85%	-85%	537%	541%	417%	420%	120	-	1000
Dissolved Copper	mg/L	0.001	0.001	0.07	0.07	0.0054	0.0039	440%	440%	292%	292%	-92%	-92%	-94%	-94%	0.002	0.3	0.1
Fluoride	mg/L	0.13	0.13	0.15	0.15	0.28	0.19	117%	117%	48%	48%	88%	88%	28%	28%	0.12	-	-
Hardness	mg CaCO ₃ /L	210	210	67.8	67.8	485.46	310.21	131%	131%	48%	48%	616%	616%	357%	358%	-	-	-
Dissolved Lead	mg/L	0.0011	0.0011	0.000066	0.000065	0.00008	0.00004	-93%	-93%	-97%	-97%	18%	19%	-43%	-43%	0.001	0.1	0.1
Dissolved Nickel	mg/L	0.002	0.002	0.0029	0.0029	0.07	0.05	3207%	3207%	2593%	2593%	2197%	2205%	1771%	1777%	0.025	0.5	0.2
Dissolved Barium	mg/L	0.027	0.027	0.010	0.010	0.04	0.03	40%	40%	18%	18%	276%	277%	215%	216%	-	-	-
Dissolved Cadmium	mg/L	0	0	0.00015	0.00015	0.000011	<0.000010	-	-	-	-	-93%	-92%	-93%	-93%	0.00004	-	0.002
Dissolved Iron	mg/L	0.25	0.25	0.23	0.23	0.011	0.005	-96%	-96%	-98%	-98%	-95%	-95%	-98%	-98%	0.3	-	-
Dissolved Mercury	mg/L	0	0	0.000017	0.000017	0.000070	<0.000010	-	-	-	-	317%	322%	-40%	-40%	0.000026	-	0.0004
Dissolved Manganese	mg/L	0.13	0.13	0.16	0.16	0.093	0.088	-28%	-28%	-33%	-33%	-42%	-41%	-45%	-44%	0.23	-	-
Dissolved Molybdenum	mg/L	0.0086	0.0086	0.025	0.025	0.068	0.058	688%	688%	570%	570%	174%	176%	133%	135%	0.073	-	-
Dissolved Selenium	mg/L	0.0002	0.0002	0.0038	0.0038	0.020	0.017	10003%	10003%	8200%	8200%	429%	433%	334%	338%	0.001	-	-
Dissolved Thallium	mg/L	0	0	0.0014	0.0014	0.000008	0.000007	-	-	-	-	-99%	-99%	-100%	-100%	0.0008	-	-
Nitrate	mg N/L	4	4	0.38	0.38	0.12	0.10	-97%	-97%	-98%	-98%	-69%	-69%	-74%	-73%	2.94	-	20
Sulphate	mg/L	21	21	164.8	163.8	869.17	657.50	4039%	4039%	3031%	3031%	428%	430%	299%	301%	128	-	-
Total Dissolved Solids	mg/L	670	670	245.5	245.3	1825.00	1817.50	172%	172%	171%	171%	644%	644%	640%	641%	-	-	-
Dissolved Zinc	mg/L	0.0051	0.0051	0.0038	0.0038	0.0029	0.0020	-44%	-44%	-61%	-61%	-24%	-23%	-47%	-47%	0.013	0.5	0.4

Third Portage Pit Sumps Water Quality Year 15 (Pit E)

Parameters	Units	Probable Scenario Predicted Model Year 4*	Possible Poor end Scenario Predicted Model Year 4*	Annual Average Water Quality Forecast Value Model Year 2024***	Lower 25% Centile Water Quality Forecasted Value***	Measured		% Difference Between predicted vs measured-mean		% Difference between predicted vs measured - Lower 25th percentile +		% Difference between predicted vs measured-mean		% Difference between predicted vs measured- Lower 25th percentile +		CCME Guidelines**	MDMER Schedule 4, Table 2**	Water License Discharge to 3PL**
						Mean	Lower 25th centile	Probable	Possible Poor	Probable	Possible Poor	Annual Average	Lower 25th centile	Annual Average	Lower 25th centile	Long Term, Based on 3PL quality	Max, Monthly Mean	Max Avg. Conc.
pH	-	6.3	6.1	-	-	7.88	7.88	25%	29%	25%	29%	-	-	-	-	6.5 to 9.0	6.0 to 9.5	6.0 to 9.0
Alkalinity	mg CaCO ₃ /L	40	43	31.2	28.3	98.89	97.00	147%	130%	143%	126%	217%	250%	211%	243%	-	-	-
Ammonia (unionized)	mg N/L	0.0005	0.0006	-	-	-	-	-	-	-	-	-	-	-	-	0.016	-	-
Ammonia nitrogen	mg N/L	2	4	3.549	3.081	56.86	52.00	2743%	1321%	2500%	1200%	1502%	1745%	1365%	1588%	1.83	-	16
Dissolved Arsenic	mg/L	0.002	0.068	0.183	0.157	0.16	0.11	8049%	140%	5300%	59%	-11%	4%	-41%	-31%	0.005	0.3	0.3
Chloride	mg/L	620	630	22.893	19.870	804.44	710.00	30%	28%	15%	13%	3414%	3949%	3001%	3473%	120	-	1000
Dissolved Copper	mg/L	0.001	0.016	0.194	0.167	7.01	2.26	700678%	43699%	225900%	14025%	3518%	4094%	1067%	1253%	0.002	0.3	0.1
Fluoride	mg/L	0.19	0.24	0.126	0.119	0.14	0.12	-25%	-41%	-37%	-50%	13%	19%	-4%	0%	0.12	-	-
Hardness	mg CaCO ₃ /L	300	310	236.8	205.8	1622.8	1572.8	441%	423%	424%	407%	585%	688%	564%	664%	-	-	-
Dissolved Lead	mg/L	0.0016	0.0076	0.00055	0.00047	0.0010	0.00012	-36%	-87%	-92%	-98%	87%	115%	-78%	-74%	0.001	0.1	0.1
Dissolved Nickel	mg/L	0.003	0.093	0.020	0.017	1.59	0.56	52859%	1608%	18700%	506%	7918%	9154%	2746%	3185%	0.025	0.5	0.2
Dissolved Barium	mg/L	0.041	0.063	0.040	0.035	0.14	0.13	231%	115%	217%	106%	235%	283%	221%	267%	-	-	-
Dissolved Cadmium	mg/L	0	0	0.000015	0.000014	0.00014	<0.000025	-	-	-	-	854%	925%	72%	85%	0.00004	-	0.002
Dissolved Iron	mg/L	0.37	4.6	0.429	0.373	0.10	0.0084	-73%	-98%	-98%	-100%	-76%	-73%	-98%	-98%	0.3	-	-
Dissolved Mercury	mg/L	0	0.00010	0.0000062	0.0000058	<0.00010	<0.00010	-	0%	-	0%	1511%	1622%	1511%	1622%	0.000026	-	0.0004
Dissolved Manganese	mg/L	0.19	0.66	0.031	0.028	0.035	0.013	-82%	-95%	-93%	-98%	10%	23%	-59%	-54%	0.23	-	-
Dissolved Molybdenum	mg/L	0.013	0.013	0.023	0.020	0.094	0.087	619%	619%	570%	570%	313%	376%	284%	343%	0.073	-	-
Dissolved Selenium	mg/L	0.0003	0.0012	0.0015	0.0013	0.24	0.22	81048%	20187%	74567%	18567%	16655%	19037%	15317%	17509%	0.001	-	-
Dissolved Thallium	mg/L	0	0.00010	0.00025	0.00024	0.000028	<0.000010	-	-72%	-	-90%	-89%	-88%	-96%	-96%	0.0008	-	-
Nitrate	mg N/L	2.3	4	0.65	0.568	21.86	18.70	850%	447%	713%	368%	3276%	3749%	2788%	3192%	2.94	-	20
Sulphate	mg/L	31	46	439.6	379.8	1987	2000	6311%	4221%	6352%	4248%	352%	423%	355%	427%	128	-	-
Total Dissolved Solids	mg/L	960	990	571.2	495.9	4888	4640	409%	394%	383%	369%	756%	886%	712%	836%	-	-	-
Dissolved Zinc	mg/L	0.0076	0.085	0.0022	0.0021	0.0039	0.00071	-49%	-95%	-91%	-99%	76%	83%	-68%	-67%	0.013	0.5	0.4

Third Portage Pit Sumps Water Quality Year 15 (Pit A)

Parameters	Units	Probable Scenario Predicted Model Year 4*	Possible Poor end Scenario Predicted Model Year 4*	Annual Average Water Quality Forecast Value Model Year 2024***	Lower 25% Centile Water Quality Forecasted Value***	Measured		% Difference Between predicted vs measured-mean		% Difference between predicted vs measured - Lower 25th percentile +		% Difference between predicted vs measured-mean		% Difference between predicted vs measured-Lower 25th percentile +		CCME Guidelines**	MDMER Schedule 4, Table 2**	Water License Discharge to 3PL**
						Mean	Lower 25th centile	Probable	Possible Poor	Probable	Possible Poor	Annual Average	Lower 25th centile	Annual Average	Lower 25th centile	Long Term, Based on 3PL quality	Max, Monthly Mean	Max Avg. Conc.
pH	-	6.3	6.1	-	-	7.77	7.53	23%	27%	20%	23%	-	-	-	-	6.5 to 9.0	6.0 to 9.5	6.0 to 9.0
Alkalinity	mg CaCO ₃ /L	0.05	2.4	28.0	25.2	134.3	117.5	268567%	5497%	234900%	4796%	380%	432%	319%	365%	-	-	-
Ammonia (unionized)	mg N/L	0.003	0.001	-	-	-	-	-	-	-	-	-	-	-	-	0.016	-	-
Ammonia nitrogen	mg N/L	12	9	3.2	2.7	31.47	22.20	162%	250%	85%	147%	880%	1066%	591%	723%	1.83	-	16
Dissolved Arsenic	mg/L	0	0.056	0.13	0.11	0.029	0.018	-	-48%	-	-67%	-78%	-74%	-86%	-84%	0.005	0.3	0.3
Chloride	mg/L	0	0	21.0	17.7	193.3	150.0	-	-	-	-	821%	989%	615%	745%	120	-	1000
Dissolved Copper	mg/L	0	0.007	0.16	0.14	0.10	0.02	-	1398%	-	122%	-36%	-23%	-90%	-89%	0.002	0.3	0.1
Fluoride	mg/L	0	0.031	0.13	0.12	0.25	0.23	-	706%	-	642%	93%	105%	78%	89%	0.12	-	-
Hardness	mg CaCO ₃ /L	0	8	190.9	162.6	958.3	951.9	-	11879%	-	11799%	402%	489%	399%	485%	-	-	-
Dissolved Lead	mg/L	0	0.0029	0.00046	0.00039	0.000062	0.000035	-	-98%	-	-99%	-86%	-84%	-92%	-91%	0.001	0.1	0.1
Dissolved Nickel	mg/L	0	0.043	0.016	0.013	0.22	0.13	-	404%	-	201%	1289%	1531%	730%	874%	0.025	0.5	0.2
Dissolved Barium	mg/L	0	0.013	0.032	0.027	0.035	0.033	-	172%	-	155%	11%	30%	4%	21%	-	-	-
Dissolved Cadmium	mg/L	0	0	0.000015	0.000013	0.000023	0.000012	-	-	-	-	52%	73%	-24%	-14%	0.00004	-	0.002
Dissolved Iron	mg/L	0	2.1	0.35	0.30	0.045	0.027	-	-98%	-	-99%	-87%	-85%	-92%	-91%	0.3	-	-
Dissolved Mercury	mg/L	0	0	0.000009	0.000008	<0.0001	<0.0001	-	-	-	-	1023%	1085%	1023%	1085%	0.000026	-	0.0004
Dissolved Manganese	mg/L	0.0002	0.22	0.032	0.028	0.32	0.23	158067%	44%	112775%	3%	898%	1032%	612%	708%	0.23	-	-
Dissolved Molybdenum	mg/L	0	0.0008	0.024	0.020	0.074	0.056	-	9098%	-	6913%	212%	271%	138%	183%	0.073	-	-
Dissolved Selenium	mg/L	0	0.0006	0.0023	0.0020	0.048	0.031	-	7907%	-	5096%	1971%	2357%	1244%	1494%	0.001	-	-
Dissolved Thallium	mg/L	0	0.0001	0.0003	0.0003	0.00007	0.00006	-	-94%	-	-94%	-98%	-98%	-98%	-98%	0.0008	-	-
Nitrate	mg N/L	13	10	0.75	0.66	0.86	0.51	-93%	-91%	-96%	-95%	15%	30%	-32%	-24%	2.94	-	20
Sulphate	mg/L	0	9	368.0	309.5	1242	1085	-	13696%	-	11956%	237%	301%	195%	251%	128	-	-
Total Dissolved Solids	mg/L	28	41	473.1	401.2	2133	1515	7519%	5103%	5311%	3595%	351%	432%	220%	278%	-	-	-
Dissolved Zinc	mg/L	0	0.037	0.0029	0.0028	0.0038	0.0027	-	-91%	-	-95%	11%	15%	-36%	-34%	0.013	0.5	0.4

Footnotes:

Highlighted values represent exceedances of greater than 20% relative percent difference between predicted vs measured values.

*Used year 13 predictions for Vault and Phaser which represent 5th year of pit flooding, year 3 for Goose and year 4 for Portage which represent active pit operations as presented in Golder, 2007 - Water Quality Predictions Meadowbank Gold Project Doc No 516. Ver 0

** Discharge criteria and guidelines based on total metal concentrations. Sulphate guideline based on threshold value from BC Environment guideline for the protection of aquatic life for very soft water (0-30 mg/L) (April 2013).

*** Annual average water quality and 25% centile values shown in this table are based on the water quality forecast considered in the Meadowbank Interim Closure and Reclamation Plan - Update 2019, Doc. No. 662987-5000-4EER-0001, rev. 00.

Highlighted values in yellow indicate a mean measured value greater than the discharge criteria or guidelines.