

## **APPENDIX 20 2025 DDH WATER SAMPLES RESULTS**

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Sample date		1/23/2025	4/19/2025	5/12/2025	8/10/2025	11/4/2025
Sample name		ML425-9858-D2	ML425-4858-D6	ML425-10352-D8A	ML400-8931-d26	ML425-1017-D6
Parameter	Unit					
<b>WQ02- Conventional Parameters</b>						
pH	pH units	7.04	7.01	7.9	7.39	7.06
Dissolved Oxygen	%	-	43.4	42.3	108	30.8
Turbidity	NTU	70	56	16	79	70
Conductivity	ms/cm	68.6	80.1	25	67.4	77.2
Hardness, as CaCO <sub>3</sub>	mg/L	14900	13400	2520	10300	12900
Total alkalinity, as Ca	mg/L	51	44	210	140	48
Carbonate, as CaCO <sub>3</sub>	mg/L	< 1	< 1	1.5	< 1	< 1.0
Bicarbonate, as CaCO	mg/L	51	44	200	140	48
TDS	mg/L	56800	56400	16300	49900	56300
TSS	mg/L	28	44	13	47	51
Total organic carbon	mg/L	1.6	1.4	4.2	6.2	1.6
Dissolved organic car	mg/L	1.4	1.3	4.2	5.8	1.7
<b>WQ03- Major Ions</b>						
Chloride	mg/L	33000	34000	8600	28000	33000
Fluoride	mg/L	< 0.1	0.13	0.29	< 0.1	0.12
Silica	mg/L	4.1	5.6	5.8	5.5	4.7
Sulfate	mg/L	3600	3300	1100	3200	3200
<b>WQ04- Nutrients and Chlorophyll a</b>						
Ammonia Nitrogen (a	mg/L	5.2	4.7	1.4	3.7	3.2
Nitrate (as N)	mg/L	1.4	1.29	< 0.1	< 0.5	< 0.50
Nitrite (as N)	mg/L	0.027	0.015	< 0.01	< 0.05	< 0.050
Nitrate + nitrite (as N)	mg/L	1.43	1.3	< 0.1	< 0.5	< 0.50
Total Kjeldahl nitroge	mg/L	6.8	7.1	1.7	4.1	3.2
Total phosphorus	mg/L	0.11	0.053	0.096	0.26	0.036
Orthophosphate (P)	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010
<b>WQ06- Total Metals</b>						
Aluminum	mg/L	< 0.15	< 0.15	< 0.06	0.21	< 0.60
Antimony	mg/L	< 0.025	< 0.025	< 0.01	< 0.025	< 0.10
Arsenic	mg/L	< 0.005	0.008	< 0.002	0.005	< 0.020
Barium	mg/L	< 0.05	< 0.05	0.034	< 0.05	< 0.20
Beryllium	mg/L	< 0.005	< 0.005	< 0.002	< 0.005	< 0.020
Boron	mg/L	< 2.5	< 2.5	1.8	2.7	< 10
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0002	< 0.0005	< 0.0020
Calcium (total)	mg/L	1550	1590	338	1200	5770
Chromium	mg/L	< 0.05	< 0.05	< 0.02	< 0.05	< 0.20
Cobalt	mg/L	< 0.01	< 0.01	< 0.004	< 0.01	< 0.040
Copper	mg/L	< 0.025	< 0.025	< 0.01	< 0.025	< 0.10
Iron	mg/L	6.84	4.62	1.18	6.15	15.9
Lead	mg/L	< 0.01	< 0.01	< 0.004	< 0.01	< 0.040
Lithium	mg/L	0.23	0.21	0.073	0.3	0.76
Magnesium (total)	mg/L	2020	1850	435	2030	8190
Manganese	mg/L	0.881	1.06	0.199	0.804	3.61
Mercury	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Molybdenum	mg/L	< 0.05	< 0.05	< 0.02	< 0.05	< 0.20
Nickel	mg/L	< 0.05	< 0.05	< 0.02	< 0.05	< 0.20
Potassium (total)	mg/L	326	279	127	426	1220
Selenium	mg/L	< 0.005	< 0.005	< 0.002	< 0.005	< 0.020
Silver	mg/L	< 0.001	< 0.001	< 0.0004	< 0.001	< 0.0040
Sodium (total)	mg/L	13400	13100	4700	16000	53800
Strontium	mg/L	51.1	49.2	11.4	37.5	174
Thallium	mg/L	< 0.0005	< 0.0005	< 0.0002	< 0.0005	< 0.0020
Tin	mg/L	< 0.25	< 0.25	< 0.1	< 0.25	< 1.0
Titanium	mg/L	< 0.25	< 0.25	< 0.1	< 0.25	< 1.0
Uranium	mg/L	< 0.005	< 0.005	< 0.002	< 0.005	< 0.020
Vanadium	mg/L	< 0.25	< 0.25	< 0.1	< 0.25	< 1.0
Zinc	mg/L	< 0.25	< 0.25	< 0.1	< 0.25	< 1.0
<b>WQ07- Dissolved Metals</b>						
Aluminum	mg/L	< 0.15	< 0.15	< 0.06	< 0.15	< 0.15
Antimony	mg/L	< 0.025	< 0.025	< 0.01	< 0.025	< 0.025
Arsenic	mg/L	< 0.005	< 0.005	< 0.002	< 0.005	< 0.0050
Barium	mg/L	< 0.05	< 0.05	0.032	< 0.05	< 0.050
Beryllium	mg/L	< 0.005	< 0.005	< 0.002	< 0.005	< 0.0050
Boron	mg/L	< 2.5	< 2.5	1.9	3.34	< 2.5
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0002	< 0.0005	< 0.00050
Calcium (Dissolved)	mg/L	1800	1700	330	1090	1690
Chromium	mg/L	< 0.05	< 0.05	< 0.02	< 0.05	< 0.050
Cobalt	mg/L	< 0.01	< 0.01	< 0.004	< 0.01	< 0.010
Copper	mg/L	< 0.01	< 0.01	< 0.004	< 0.01	< 0.010
Iron	mg/L	3.5	2.64	< 0.1	< 0.25	4.44
Lead	mg/L	< 0.01	< 0.01	< 0.004	< 0.01	< 0.010
Lithium	mg/L	0.23	0.2	0.078	0.286	0.22
Magnesium (Dissolved)	mg/L	2530	2220	411	1850	2100
Manganese	mg/L	1.01	1.11	0.201	0.735	0.988
Mercury	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L	< 0.05	< 0.05	< 0.02	< 0.05	< 0.050
Nickel	mg/L	< 0.05	< 0.05	< 0.02	< 0.05	< 0.050
Potassium (Dissolved)	mg/L	372	318	123	394	328
Selenium	mg/L	< 0.005	< 0.005	< 0.002	< 0.005	< 0.0050
Silicon	mg/L	-	-	-	< 5	-
Silver	mg/L	< 0.001	< 0.001	< 0.0004	< 0.001	< 0.0010
Sodium (Dissolved)	mg/L	17100	15500	4360	14900	14200
Strontium	mg/L	53.7	56.9	10.8	34.4	47.2
Thallium	mg/L	< 0.0005	< 0.0005	< 0.0002	< 0.0005	< 0.00050
Tin	mg/L	< 0.25	< 0.25	< 0.1	< 0.25	< 0.25
Titanium	mg/L	< 0.25	< 0.25	< 0.1	< 0.25	< 0.25
Uranium	mg/L	< 0.005	< 0.005	< 0.002	< 0.005	< 0.0050
Vanadium	mg/L	< 0.25	< 0.25	< 0.1	< 0.25	< 0.25
Zinc	mg/L	< 0.25	< 0.25	< 0.1	< 0.25	< 0.25
<b>WQ08- Radionuclides</b>						
Radium-226	Bq/l	1.9	2.9	0.22	0.51	1.2