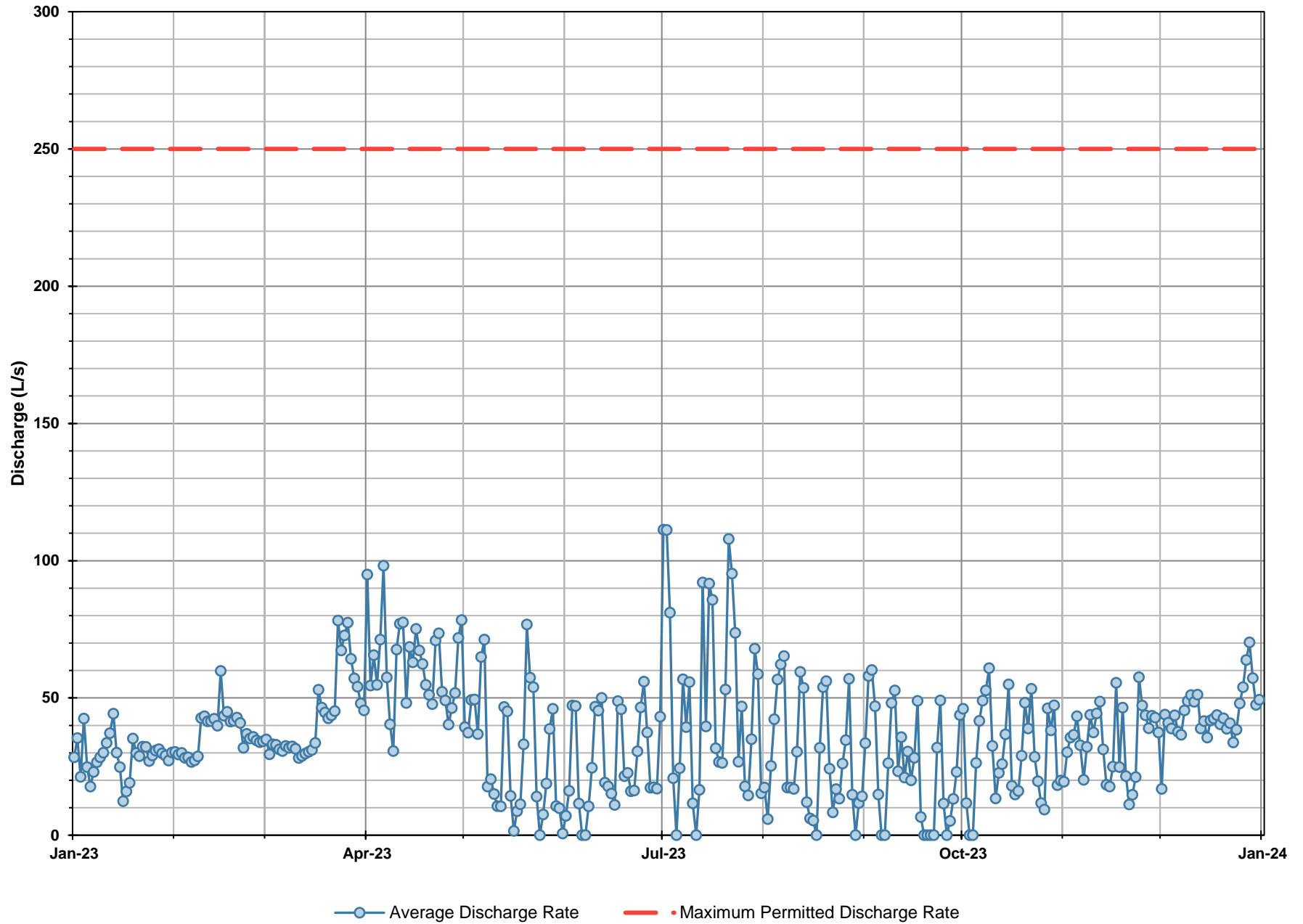


APPENDIX E

Discharge Monitoring




Notation	Description
mg/L	milligrams per Litre • values in mg/L unless otherwise noted
pH	provided in Scientific Units
E C	Electrical Conductivity provided in microSiemens per centimetre
T	Temperature provided in degrees Celsius
Flow Rate	Daily discharge volume provided in Litres (L) Discharge rates provided in L/s
ECA	Environmental Compliance Approval for Industrial Sewage Works no. 1521-A4VJ4X, issued October 17, 2016. bolded text indicates an exceedance of the ECA Effluent Limits
PWQO	Provincial Water Quality Objectives (MECP, 1994 and updates)
<i>i</i>	interim PWQO
<i>nc</i>	no PWQO criteria
	shading indicates an exceedance of the PWQO criteria
a	turbidity suspended matter should not be added to surface water in concentrations that will change the natural Secchi disc reading by more than 10%
b	alkalinity should not decrease by more than 25% of the natural concentration: calculated on an event specific basis from background station SW1 when sampled
c	un-ionized ammonia value calculated value using the fraction (<i>f</i>) of NH ₃ from: $f = 1 \div (10^{pKa-pH} + 1)$ where: pKa = 0.09018 + 2729.92 ÷ T T = ambient water temperature in Kelvin (K) K = °C + 273.16 Field pH and temperature values and laboratory total ammonia results are used in the equation
d	total phosphorus does not have a firm objective: excessive plant growth in rivers and streams should be eliminated at a concentration below 0.03 mg/L
e	oil & grease should not be present in concentrations that: can be detected as a visible film, sheen or discoloration on the surface can be detected by odour can cause tainting of edible aquatic organisms can form deposits on shorelines and bottom sediments that are detectable by sight or odour, or are deleterious to resident aquatic organisms
blank	data not available
< value	parameter not detected above associated laboratory reported detection limit (RDL)

Table E-1 2023 Quarry Discharge Summary Table

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
1-Jan-23	2,448,000	28.3	250	No
2-Jan-23	3,060,000	35.4	250	No
3-Jan-23	1,836,000	21.3	250	No
4-Jan-23	3,672,000	42.5	250	No
5-Jan-23	2,142,000	24.8	250	No
6-Jan-23	1,530,000	17.7	250	No
7-Jan-23	1,989,000	23.0	250	No
8-Jan-23	2,295,000	26.6	250	No
9-Jan-23	2,448,000	28.3	250	No
10-Jan-23	2,601,000	30.1	250	No
11-Jan-23	2,907,000	33.6	250	No
12-Jan-23	3,213,000	37.2	250	No
13-Jan-23	3,825,000	44.3	250	No
14-Jan-23	2,601,000	30.1	250	No
15-Jan-23	2,142,000	24.8	250	No
16-Jan-23	1,071,000	12.4	250	No
17-Jan-23	1,377,000	15.9	250	No
18-Jan-23	1,649,000	19.1	250	No
19-Jan-23	3,043,000	35.2	250	No
20-Jan-23	2,592,000	30.0	250	No
21-Jan-23	2,487,000	28.8	250	No
22-Jan-23	2,787,000	32.3	250	No
23-Jan-23	2,783,000	32.2	250	No
24-Jan-23	2,338,000	27.1	250	No
25-Jan-23	2,510,000	29.1	250	No
26-Jan-23	2,663,000	30.8	250	No
27-Jan-23	2,709,000	31.4	250	No
28-Jan-23	2,577,000	29.8	250	No
29-Jan-23	2,499,000	28.9	250	No
30-Jan-23	2,347,000	27.2	250	No
31-Jan-23	2,605,000	30.2	250	No
1-Feb-23	2,619,000	30.3	250	No
2-Feb-23	2,539,000	29.4	250	No
3-Feb-23	2,587,000	29.9	250	No
4-Feb-23	2,435,000	28.2	250	No
5-Feb-23	2,448,000	28.3	250	No
6-Feb-23	2,303,000	26.7	250	No
7-Feb-23	2,353,000	27.2	250	No
8-Feb-23	2,483,000	28.7	250	No
9-Feb-23	3,686,000	42.7	250	No
10-Feb-23	3,745,000	43.3	250	No
11-Feb-23	3,583,000	41.5	250	No

Table E-1 2023 Quarry Discharge Summary Table

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
12-Feb-23	3,595,000	41.6	250	No
13-Feb-23	3,664,000	42.4	250	No
14-Feb-23	3,449,000	39.9	250	No
15-Feb-23	5,172,000	59.9	250	No
16-Feb-23	3,758,000	43.5	250	No
17-Feb-23	3,885,000	45.0	250	No
18-Feb-23	3,577,000	41.4	250	No
19-Feb-23	3,597,000	41.6	250	No
20-Feb-23	3,703,000	42.9	250	No
21-Feb-23	3,535,000	40.9	250	No
22-Feb-23	2,754,000	31.9	250	No
23-Feb-23	3,191,000	36.9	250	No
24-Feb-23	3,046,000	35.3	250	No
25-Feb-23	3,097,000	35.8	250	No
26-Feb-23	2,987,000	34.6	250	No
27-Feb-23	2,926,000	33.9	250	No
28-Feb-23	2,955,000	34.2	250	No
1-Mar-23	3,016,000	34.9	250	No
2-Mar-23	2,547,000	29.5	250	No
3-Mar-23	2,863,000	33.1	250	No
4-Mar-23	2,848,000	33.0	250	No
5-Mar-23	2,698,000	31.2	250	No
6-Mar-23	2,649,000	30.7	250	No
7-Mar-23	2,811,000	32.5	250	No
8-Mar-23	2,749,000	31.8	250	No
9-Mar-23	2,798,000	32.4	250	No
10-Mar-23	2,724,000	31.5	250	No
11-Mar-23	2,427,000	28.1	250	No
12-Mar-23	2,494,000	28.9	250	No
13-Mar-23	2,567,000	29.7	250	No
14-Mar-23	2,629,000	30.4	250	No
15-Mar-23	2,687,000	31.1	250	No
16-Mar-23	2,908,000	33.7	250	No
17-Mar-23	4,577,000	53.0	250	No
18-Mar-23	4,016,000	46.5	250	No
19-Mar-23	3,865,000	44.7	250	No
20-Mar-23	3,676,000	42.5	250	No
21-Mar-23	3,775,000	43.7	250	No
22-Mar-23	3,904,000	45.2	250	No
23-Mar-23	6,757,000	78.2	250	No
24-Mar-23	5,817,000	67.3	250	No
25-Mar-23	6,290,000	72.8	250	No

Table E-1 2023 Quarry Discharge Summary Table

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
26-Mar-23	6,692,000	77.5	250	No
27-Mar-23	5,549,000	64.2	250	No
28-Mar-23	4,939,000	57.2	250	No
29-Mar-23	4,676,000	54.1	250	No
30-Mar-23	4,148,000	48.0	250	No
31-Mar-23	3,928,000	45.5	250	No
1-Apr-23	8,206,000	95.0	250	No
2-Apr-23	4,712,000	54.5	250	No
3-Apr-23	5,666,000	65.6	250	No
4-Apr-23	4,735,000	54.8	250	No
5-Apr-23	6,158,000	71.3	250	No
6-Apr-23	8,482,000	98.2	250	No
7-Apr-23	4,966,000	57.5	250	No
8-Apr-23	3,491,000	40.4	250	No
9-Apr-23	2,651,000	30.7	250	No
10-Apr-23	5,845,000	67.7	250	No
11-Apr-23	6,654,000	77.0	250	No
12-Apr-23	6,701,000	77.6	250	No
13-Apr-23	4,160,000	48.1	250	No
14-Apr-23	5,924,000	68.6	250	No
15-Apr-23	5,440,000	63.0	250	No
16-Apr-23	6,496,000	75.2	250	No
17-Apr-23	5,812,000	67.3	250	No
18-Apr-23	5,391,000	62.4	250	No
19-Apr-23	4,731,000	54.8	250	No
20-Apr-23	4,417,000	51.1	250	No
21-Apr-23	4,127,000	47.8	250	No
22-Apr-23	6,131,000	71.0	250	No
23-Apr-23	6,359,000	73.6	250	No
24-Apr-23	4,511,000	52.2	250	No
25-Apr-23	4,239,000	49.1	250	No
26-Apr-23	3,479,000	40.3	250	No
27-Apr-23	4,003,000	46.3	250	No
28-Apr-23	4,475,000	51.8	250	No
29-Apr-23	6,207,000	71.8	250	No
30-Apr-23	6,769,000	78.3	250	No
1-May-23	3,400,000	39.4	250	No
2-May-23	3,229,000	37.4	250	No
3-May-23	4,258,000	49.3	250	No
4-May-23	4,269,000	49.4	250	No
5-May-23	3,179,000	36.8	250	No
6-May-23	5,607,000	64.9	250	No

Table E-1 2023 Quarry Discharge Summary Table

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
7-May-23	6,160,000	71.3	250	No
8-May-23	1,532,000	17.7	250	No
9-May-23	1,766,000	20.4	250	No
10-May-23	1,298,000	15.0	250	No
11-May-23	916,000	10.6	250	No
12-May-23	906,000	10.5	250	No
13-May-23	4,039,000	46.7	250	No
14-May-23	3,901,000	45.2	250	No
15-May-23	1,240,000	14.4	250	No
16-May-23	132,000	1.5	250	No
17-May-23	757,000	8.8	250	No
18-May-23	975,000	11.3	250	No
19-May-23	2,863,000	33.1	250	No
20-May-23	6,636,000	76.8	250	No
21-May-23	4,959,000	57.4	250	No
22-May-23	4,656,000	53.9	250	No
23-May-23	1,217,000	14.1	250	No
24-May-23	1,000	0.0	250	No
25-May-23	652,000	7.5	250	No
26-May-23	1,627,000	18.8	250	No
27-May-23	3,345,000	38.7	250	No
28-May-23	3,981,000	46.1	250	No
29-May-23	916,000	10.6	250	No
30-May-23	852,000	9.9	250	No
31-May-23	51,000	0.6	250	No
1-Jun-23	606,000	7.0	250	No
2-Jun-23	1,397,000	16.2	250	No
3-Jun-23	4,080,000	47.2	250	No
4-Jun-23	4,065,000	47.0	250	No
5-Jun-23	997,000	11.5	250	No
6-Jun-23	0	0.0	250	No
7-Jun-23	1,000	0.0	250	No
8-Jun-23	912,000	10.6	250	No
9-Jun-23	2,124,000	24.6	250	No
10-Jun-23	4,042,000	46.8	250	No
11-Jun-23	3,921,000	45.4	250	No
12-Jun-23	4,320,000	50.0	250	No
13-Jun-23	1,653,000	19.1	250	No
14-Jun-23	1,538,000	17.8	250	No
15-Jun-23	1,313,000	15.2	250	No
16-Jun-23	953,000	11.0	250	No
17-Jun-23	4,223,000	48.9	250	No

Table E-1 2023 Quarry Discharge Summary Table

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
18-Jun-23	3,964,000	45.9	250	No
19-Jun-23	1,859,000	21.5	250	No
20-Jun-23	1,960,000	22.7	250	No
21-Jun-23	1,381,000	16.0	250	No
22-Jun-23	1,404,000	16.3	250	No
23-Jun-23	2,644,000	30.6	250	No
24-Jun-23	4,021,000	46.5	250	No
25-Jun-23	4,835,000	56.0	250	No
26-Jun-23	3,236,000	37.5	250	No
27-Jun-23	1,496,000	17.3	250	No
28-Jun-23	1,510,000	17.5	250	No
29-Jun-23	1,468,000	17.0	250	No
30-Jun-23	3,734,000	43.2	250	No
1-Jul-23	9,616,000	111.3	250	No
2-Jul-23	9,608,000	111.2	250	No
3-Jul-23	7,006,000	81.1	250	No
4-Jul-23	1,792,000	20.7	250	No
5-Jul-23	1,000	0.0	250	No
6-Jul-23	2,111,000	24.4	250	No
7-Jul-23	4,908,000	56.8	250	No
8-Jul-23	3,401,000	39.4	250	No
9-Jul-23	4,817,000	55.8	250	No
10-Jul-23	1,005,000	11.6	250	No
11-Jul-23	2,000	0.0	250	No
12-Jul-23	1,430,000	16.6	250	No
13-Jul-23	7,958,000	92.1	250	No
14-Jul-23	3,424,000	39.6	250	No
15-Jul-23	7,920,000	91.7	250	No
16-Jul-23	7,406,000	85.7	250	No
17-Jul-23	2,736,000	31.7	250	No
18-Jul-23	2,302,000	26.6	250	No
19-Jul-23	2,273,000	26.3	250	No
20-Jul-23	4,586,000	53.1	250	No
21-Jul-23	9,320,000	107.9	250	No
22-Jul-23	8,231,000	95.3	250	No
23-Jul-23	6,372,000	73.8	250	No
24-Jul-23	2,310,000	26.7	250	No
25-Jul-23	4,053,000	46.9	250	No
26-Jul-23	1,540,000	17.8	250	No
27-Jul-23	1,249,000	14.5	250	No
28-Jul-23	3,024,000	35.0	250	No
29-Jul-23	5,875,000	68.0	250	No

Table E-1 2023 Quarry Discharge Summary Table

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
30-Jul-23	5,065,000	58.6	250	No
31-Jul-23	1,319,000	15.3	250	No
1-Aug-23	1,498,000	17.3	250	No
2-Aug-23	503,000	5.8	250	No
3-Aug-23	2,181,000	25.2	250	No
4-Aug-23	3,650,000	42.2	250	No
5-Aug-23	4,903,000	56.7	250	No
6-Aug-23	5,377,000	62.2	250	No
7-Aug-23	5,638,000	65.3	250	No
8-Aug-23	1,499,000	17.3	250	No
9-Aug-23	1,498,000	17.3	250	No
10-Aug-23	1,457,000	16.9	250	No
11-Aug-23	2,627,000	30.4	250	No
12-Aug-23	5,139,000	59.5	250	No
13-Aug-23	4,640,000	53.7	250	No
14-Aug-23	1,040,000	12.0	250	No
15-Aug-23	529,000	6.1	250	No
16-Aug-23	464,000	5.4	250	No
17-Aug-23	1,000	0.0	250	No
18-Aug-23	2,752,000	31.9	250	No
19-Aug-23	4,661,000	53.9	250	No
20-Aug-23	4,848,000	56.1	250	No
21-Aug-23	2,092,000	24.2	250	No
22-Aug-23	721,000	8.3	250	No
23-Aug-23	1,448,000	16.8	250	No
24-Aug-23	1,153,000	13.3	250	No
25-Aug-23	2,253,000	26.1	250	No
26-Aug-23	2,994,000	34.7	250	No
27-Aug-23	4,919,000	56.9	250	No
28-Aug-23	1,274,000	14.7	250	No
29-Aug-23	1,000	0.0	250	No
30-Aug-23	1,009,000	11.7	250	No
31-Aug-23	1,224,000	14.2	250	No
1-Sep-23	2,896,000	33.5	250	No
2-Sep-23	5,008,000	58.0	250	No
3-Sep-23	5,198,000	60.2	250	No
4-Sep-23	4,062,000	47.0	250	No
5-Sep-23	1,278,000	14.8	250	No
6-Sep-23	0	0.0	250	No
7-Sep-23	2,000	0.0	250	No
8-Sep-23	2,265,000	26.2	250	No
9-Sep-23	4,164,000	48.2	250	No

Table E-1 2023 Quarry Discharge Summary Table

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
10-Sep-23	4,556,000	52.7	250	No
11-Sep-23	2,013,000	23.3	250	No
12-Sep-23	3,087,000	35.7	250	No
13-Sep-23	1,818,000	21.0	250	No
14-Sep-23	2,631,000	30.5	250	No
15-Sep-23	1,726,000	20.0	250	No
16-Sep-23	2,435,000	28.2	250	No
17-Sep-23	4,230,000	49.0	250	No
18-Sep-23	575,000	6.7	250	No
19-Sep-23	2,000	0.0	250	No
20-Sep-23	1,000	0.0	250	No
21-Sep-23	1,000	0.0	250	No
22-Sep-23	1,000	0.0	250	No
23-Sep-23	2,757,000	31.9	250	No
24-Sep-23	4,242,000	49.1	250	No
25-Sep-23	998,000	11.6	250	No
26-Sep-23	2,000	0.0	250	No
27-Sep-23	451,000	5.2	250	No
28-Sep-23	1,146,000	13.3	250	No
29-Sep-23	1,991,000	23.0	250	No
30-Sep-23	3,782,000	43.8	250	No
1-Oct-23	3,981,000	46.1	250	No
2-Oct-23	1,009,000	11.7	250	No
3-Oct-23	0	0.0	250	No
4-Oct-23	2,000	0.0	250	No
5-Oct-23	2,273,000	26.3	250	No
6-Oct-23	3,602,000	41.7	250	No
7-Oct-23	4,237,000	49.0	250	No
8-Oct-23	4,559,000	52.8	250	No
9-Oct-23	5,260,000	60.9	250	No
10-Oct-23	2,806,000	32.5	250	No
11-Oct-23	1,157,000	13.4	250	No
12-Oct-23	1,961,000	22.7	250	No
13-Oct-23	2,236,000	25.9	250	No
14-Oct-23	3,176,000	36.8	250	No
15-Oct-23	4,748,000	55.0	250	No
16-Oct-23	1,550,000	17.9	250	No
17-Oct-23	1,278,000	14.8	250	No
18-Oct-23	1,391,000	16.1	250	No
19-Oct-23	2,502,000	29.0	250	No
20-Oct-23	4,172,000	48.3	250	No
21-Oct-23	3,356,000	38.8	250	No

Table E-1 2023 Quarry Discharge Summary Table

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
22-Oct-23	4,611,000	53.4	250	No
23-Oct-23	2,464,000	28.5	250	No
24-Oct-23	1,701,000	19.7	250	No
25-Oct-23	1,011,000	11.7	250	No
26-Oct-23	810,000	9.4	250	No
27-Oct-23	3,992,000	46.2	250	No
28-Oct-23	3,296,000	38.1	250	No
29-Oct-23	4,090,000	47.3	250	No
30-Oct-23	1,575,000	18.2	250	No
31-Oct-23	1,721,000	19.9	250	No
1-Nov-23	1,682,000	19.5	250	No
2-Nov-23	2,614,000	30.3	250	No
3-Nov-23	3,073,000	35.6	250	No
4-Nov-23	3,162,000	36.6	250	No
5-Nov-23	3,743,000	43.3	250	No
6-Nov-23	2,828,000	32.7	250	No
7-Nov-23	1,745,000	20.2	250	No
8-Nov-23	2,782,000	32.2	250	No
9-Nov-23	3,788,000	43.8	250	No
10-Nov-23	3,231,000	37.4	250	No
11-Nov-23	3,832,000	44.4	250	No
12-Nov-23	4,208,000	48.7	250	No
13-Nov-23	2,702,000	31.3	250	No
14-Nov-23	1,586,000	18.4	250	No
15-Nov-23	1,528,000	17.7	250	No
16-Nov-23	2,157,000	25.0	250	No
17-Nov-23	4,795,000	55.5	250	No
18-Nov-23	2,144,000	24.8	250	No
19-Nov-23	4,017,000	46.5	250	No
20-Nov-23	1,860,000	21.5	250	No
21-Nov-23	968,000	11.2	250	No
22-Nov-23	1,277,000	14.8	250	No
23-Nov-23	1,831,000	21.2	250	No
24-Nov-23	4,973,000	57.6	250	No
25-Nov-23	4,083,000	47.3	250	No
26-Nov-23	3,772,000	43.7	250	No
27-Nov-23	3,366,000	39.0	250	No
28-Nov-23	3,761,000	43.5	250	No
29-Nov-23	3,700,000	42.8	250	No
30-Nov-23	3,231,000	37.4	250	No
1-Dec-23	1,454,000	16.8	250	No
2-Dec-23	3,796,000	43.9	250	No

Table E-1 2023 Quarry Discharge Summary Table

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
3-Dec-23	3,542,000	41.0	250	No
4-Dec-23	3,361,000	38.9	250	No
5-Dec-23	3,773,000	43.7	250	No
6-Dec-23	3,257,000	37.7	250	No
7-Dec-23	3,158,000	36.6	250	No
8-Dec-23	3,926,000	45.4	250	No
9-Dec-23	4,219,000	48.8	250	No
10-Dec-23	4,410,000	51.0	250	No
11-Dec-23	4,202,000	48.6	250	No
12-Dec-23	4,426,000	51.2	250	No
13-Dec-23	3,355,000	38.8	250	No
14-Dec-23	3,591,000	41.6	250	No
15-Dec-23	3,073,000	35.6	250	No
16-Dec-23	3,616,000	41.9	250	No
17-Dec-23	3,669,000	42.5	250	No
18-Dec-23	3,785,000	43.8	250	No
19-Dec-23	3,491,000	40.4	250	No
20-Dec-23	3,680,000	42.6	250	No
21-Dec-23	3,350,000	38.8	250	No
22-Dec-23	3,527,000	40.8	250	No
23-Dec-23	2,919,000	33.8	250	No
24-Dec-23	3,320,000	38.4	250	No
25-Dec-23	4,148,000	48.0	250	No
26-Dec-23	4,661,000	53.9	250	No
27-Dec-23	5,512,000	63.8	250	No
28-Dec-23	6,071,000	70.3	250	No
29-Dec-23	4,943,000	57.2	250	No
30-Dec-23	4,105,000	47.5	250	No
31-Dec-23	4,268,000	49.4	250	No

Table E-2 2023 Monthly Quarry Discharge Chemical Results

Date	Field Parameters			General Parameters						Major Ions				Nutrients and Organic Indicators						
	pH (su)	EC (µS/cm)	T (°C)	pH (su)	EC (µS/cm)	TSS	TDS	Hardness	Turbidity	Alkalinity	Chloride	Sulphate	Sodium	Potassium	Nitrate	Nitrite	Ammonia	Un-ionized Ammonia	T P	Phenols
											Cl	SO ₄	Na	K	NO ₃	NO ₂	NH ₃		P	
PWQO	6.5 - 8.5	nc	nc	6.5 - 8.5	nc	nc	nc	nc	a	b	nc	nc	nc	nc	nc	nc	nc	0.02 c	0.03 i d	0.001
ECA Effluent Limit	6.0 - 9.5	nc	nc	nc	nc	25	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
25-Jan-23	7.4	701	3.4	7.86	580	<10	255	320	0.4	270	20	7.8	2.7	0.7	1.28	<0.01	<0.05	<0.001	0.005	<0.001
23-Feb-23	7.5	633	2.5	7.88	530	<10	250	280	0.3	260	14	7.7	3.5	0.87	1.14	<0.01	<0.05	<0.001	<0.004	<0.001
27-Mar-23	8.8	524	2.4	7.81	540	<10	265	270	0.9	220	32	7.1	9.8	1.5	1.56	<0.01	<0.05	<0.003	<0.004	<0.001
24-Apr-23	5.9	577	5.8	8.19	630	21	265	280	1.9	210	64	7.1	22	2.5	1.45	<0.01	0.078	<0.001	<0.004	<0.001
2-May-23	8.1																			
17-May-23	7.8	702	8.9	8.09	750	<10	380	330	0.6	240	92	8.4	29	2.9	1.2	0.011	<0.05	<0.001	0.004	<0.001
28-Jun-23	8	788	17.8	8.18	820	<10	625	340	0.5	200	110	8.9	32	4	1.1	<0.01	0.063	0.002	<0.004	<0.001
26-Jul-23	8.2	622	21	8.19	780	48	405	330	3.2	190	120	8.9	30	3.9	1.22	0.015	0.075	0.005	0.015	<0.001
30-Aug-23	7.1	758	15.8	7.89	860	12	505	390	4.6	200	130	8.9	36	4.7	1.26	0.019	0.095	<0.001	<0.004	<0.001
25-Sep-23	7.5	785	14.5	7.99	860	<10	425	380	1.6	220	130	8.1	32	4	1.21	<0.01	0.089	0.001	0.022	<0.001
31-Oct-23	8.1	695	9.1	7.93	950	<10	480	390	1	210	150	8	36	4.4	1.5	<0.01	0.1	0.002	<0.004	<0.001
29-Nov-23	7.2	1008	3.1	8.01	950	<10	440	420	0.8	230	150	8.4	36	4.7	1.6	<0.01	0.12	<0.001	<0.004	<0.001
18-Dec-23	7.7	848	5.2	8.1	880	12	460	360	3.1	230	110	7.2	29	3.4	2.02	<0.01	0.11	0.001	0.008	<0.001

Table E-2 2023 Monthly Quarry Discharge Chemical Results

Date	Total Metals										Oil & Grease			
	Boron B	Cadmium Cd	Chromium Cr	Cobalt Co	Copper Cu	Iron Fe	Lead Pb	Nickel Ni	Silicon Si	Silver Ag	Zinc Zn	Animal / Vegetable	Mineral	Total
PWQO	0.2	0.0005 <i>i</i>	0.0089	0.0009	0.005 <i>i</i>	0.3	0.005 <i>i</i>	0.025	nc	0.0001	0.03	e	e	e
ECA Effluent Limit	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	15
25-Jan-23	0.01	<0.00009	<0.005	<0.0005	<0.0009	<0.1	<0.0005	<0.001	1.7	<0.00009	<0.005	0.9	<0.5	0.9
23-Feb-23	0.013	<0.00009	<0.005	<0.0005	<0.0009	<0.1	<0.0005	<0.001	1.8	<0.00009	<0.005	1.2	<0.5	1.2
27-Mar-23	0.016	<0.00009	<0.005	<0.0005	<0.0009	<0.1	<0.0005	<0.001	1.5	<0.00009	<0.005	<0.5	<0.5	<0.5
24-Apr-23	0.027	<0.00009	<0.005	<0.0005	<0.0009	<0.1	<0.0005	<0.001	1.4	<0.00009	<0.005	<0.5	<0.5	<0.5
2-May-23														
17-May-23	0.033	<0.00009	<0.005	<0.0005	<0.0009	<0.1	<0.0005	<0.001	1.4	<0.00009	<0.005	<0.5	<0.5	<0.5
28-Jun-23	0.056	<0.00009	<0.005	<0.0005	<0.0009	<0.1	<0.0005	<0.001	1.2	<0.00009	<0.005	<0.5	0.5	0.7
26-Jul-23	0.056	<0.00009	<0.005	<0.0005	0.0015	0.43	0.0012	<0.001	1.6	<0.00009	<0.005	<0.5	<0.5	<0.5
30-Aug-23	0.063	<0.00009	<0.005	<0.0005	<0.0009	<0.1	<0.0005	<0.001	1.5	<0.00009	<0.005	<0.5	<0.5	<0.5
25-Sep-23	0.059	<0.00009	<0.005	<0.0005	<0.0009	<0.1	<0.0005	<0.001	1.7	<0.00009	<0.005	<0.5	<0.5	<0.5
31-Oct-23	0.067	<0.00009	<0.005	<0.0005	<0.0009	0.12	<0.0005	<0.001	1.6	<0.00009	<0.005	<0.5	<0.5	<0.5
29-Nov-23	0.059	<0.00009	<0.005	<0.0005	<0.0009	0.11	<0.0005	<0.001	1.8	<0.00009	<0.005	<0.5	<0.5	<0.5
18-Dec-23	0.047	<0.00009	<0.005	<0.0005	0.00098	0.23	<0.0005	<0.001	1.6	<0.00009	<0.005	<0.5	<0.5	<0.5