



# **ANNUAL PUBLIC DISCHARGES REPORT**

**YEAR 2022**

**Porcupine**  
4315 Gold Mine Road  
P.O. Box 70  
South Porcupine, ON  
P0N 1H0

June 1<sup>st</sup>, 2023

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**Dome Mine  
Effluent Treatment Plant (ETP)  
Final Discharge**



**MISA Cover Letter Public Report- Section 35**

(b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

**ETP**

Concentrations										
	Flow Rate m <sup>3</sup> /day	Lab pH pH unit	Total Cyanide mg/L	Suspended Solids mg/L	Total Arsenic mg/L	Total Copper mg/L	Total Lead mg/L	Total Nickel mg/L	Total Zinc mg/L	

**Quarter 1**

<b><u>January</u></b>	<b><u>No. Days Discharged</u></b>	0
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Average
Minimum
Maximum

<b><u>February</u></b>	<b><u>No. Days Discharged</u></b>	0
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Average
Minimum
Maximum

<b><u>March</u></b>	<b><u>No. Days Discharged</u></b>	0
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Average
Minimum
Maximum

**Quarter 2**

<b><u>April</u></b>	<b><u>No. Days Discharged</u></b>	0
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Average
Minimum
Maximum

**MISA Cover Letter Public Report- Section 35**

(b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

**ETP**

		Concentrations								
		Flow Rate m <sup>3</sup> /day	Lab pH pH unit	Total Cyanide mg/L	Suspended Solids mg/L	Total Arsenic mg/L	Total Copper mg/L	Total Lead mg/L	Total Nickel mg/L	Total Zinc mg/L
<b><u>May</u></b>	<b><u>No. Days Discharged</u></b>		<u>0</u>							

Average
Minimum
Maximum

<b><u>June</u></b>	<b><u>No. Days Discharged</u></b>	<u>0</u>
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Average
Minimum
Maximum

<b><u>Quarter 3</u></b>		
<b><u>July</u></b>	<b><u>No. Days Discharged</u></b>	

Average
Minimum
Maximum

<b><u>August</u></b>	<b><u>No. Days Discharged</u></b>	
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Average
Minimum
Maximum

<b><u>September</u></b>	<b><u>No. Days Discharged</u></b>	<u>30</u>
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Average
Minimum
Maximum

**MISA Cover Letter Public Report- Section 35**

(b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

ETP

Concentrations									
	Flow Rate m <sup>3</sup> /day	Lab pH pH unit	Total Cyanide mg/L	Suspended Solids mg/L	Total Arsenic mg/L	Total Copper mg/L	Total Lead mg/L	Total Nickel mg/L	Total Zinc mg/L

**Quarter 4**

**October**                      No. Days Discharged                     

Average									
Minimum									
Maximum									

**November**                      No. Days Discharged                     

Average									
Minimum									
Maximum									

**December**                      No. Days Discharged                     

Average									
Minimum									
Maximum									

Notes: **Less than MDL**

**MISA Cover Letter Public Report Section- 35**

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

ETP

Loadings								
Collect Date	Total Cyanide kg/day	Suspended Solids kg/day	Total Arsenic kg/day	Total Copper kg/day	Total Lead kg/day	Total Nickel kg/day	Total Zinc Calculations	Total Zinc kg/day

Quarter 1

January

Average Daily Load								
Monthly Load (kg/mo.								

February

Average Daily Load								
Monthly Load (kg/mo.								

March

Average Daily Load								
Monthly Load (kg/mo.								

Quarter 2

April

Average Daily Load								
Monthly Load (kg/mo.								

**MISA Cover Letter Public Report Section- 35**

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

ETP

Loadings								
Collect Date	Total Cyanide kg/day	Suspended Solids kg/day	Total Arsenic kg/day	Total Copper kg/day	Total Lead kg/day	Total Nickel kg/day	Total Zinc Calculations	Total Zinc kg/day

May

Average Daily Load								
Monthly Load (kg/mo).								

June

Average Daily Load								
Monthly Load (kg/mo).								

Quarter 3

July

Average Daily Load								
Monthly Load (kg/mo).								

Quarter 3

August

Average Daily Load								
Monthly Load (kg/mo).								

September

Average Daily Load								
Monthly Load (kg/mo).								

**MISA Cover Letter Public Report Section- 35**

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

ETP

Loadings								
Collect Date	Total Cyanide kg/day	Suspended Solids kg/day	Total Arsenic kg/day	Total Copper kg/day	Total Lead kg/day	Total Nickel kg/day	Total Zinc Calculations	Total Zinc kg/day

October

Average Daily Load								
Monthly Load (kg/mo.								

November

Average Daily Load								
Monthly Load (kg/mo.								

December

Average Daily Load								
Monthly Load (kg/mo.								
Total Annual Load								
kg/year								





**ETP**

**MISA Cover Letter Public Report Section 35**

(d) Summary of Process Effluent- Weekly and Thrice Weekly Monitoring, pH measurement, Lethality Monitoring and Chronic Toxicity Testing under Sections 22, 23,

Summary of results from monitoring performed under sections 22, 23, 25

All samples were collected as per requirements of Sections 22, 23 & 25 of the regulation during discharge periods.

Summary of results from monitoring performed under sections 26, 27, & 28

All samples were collected as per requirements of Sections 26, 27 & 28 of the regulation during discharge periods.

**Results**

Date	Rainbow Trout	Daphnia Magna	Ceriodaphnia Dubia		Fathead Minnow	
	% mortality @ 100% Conc.		Reproduction	Survival	Growth	

**ETP**

**MISA Public Report Section 35**

(e) Summary of calculations performed under Sections 31(6), 32(1) and 32(4)

*All flow monitoring results are recorded by a calibrated transducer and recorder.  
Flow monitoring calibrations are completed and certified annually when discharging.*

(f) Summary of concentrations or other results that exceeded a limit under Sections 18 or 19

*The Effluent Treatment Plant did not operate in 2022*

(g)(h) Summary of incidents

**Dome Mine  
Mine Water Storage Pond (MWSP)  
Final Discharge**



## MISA Cover Letter Public Report- Section 35

### (b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

#### MWSP

Concentrations									
Flow Rate	Lab pH	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc	
m <sup>3</sup> /day	pH unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

#### Quarter 1

##### January

No. Days Discharged	31								
4-Jan-22	1072.32	8.05	0.002	2.3					
5-Jan-22	1336.56	8.01	0.009	2	0.007	0.006	0.0001	0.007	0.005
7-Jan-22	1203.36	8.08		1.3					
10-Jan-22	842.16	7.93	0.005	3					
12-Jan-22	793.44	7.87	0.008	1.3	0.006	0.006	0.0001	0.007	0.003
14-Jan-22	92.4	8.04	0.002	2.3					
17-Jan-22	789.84	7.67	0.002	0.67					
19-Jan-22	963.12	8.01	0.002	1.7	0.006	0.007	0.0001	0.007	0.008
21-Jan-22	1040.4	8.08	0.005	0.67					
24-Jan-22	926.16	7.78	0.002	4					
28-Jan-22	1317.84	8	0.004	3.7					
31-Jan-22	1129.2	7.97	0.007	2.7					
<b>Average</b>	<b>959</b>	<b>7.96</b>	<b>0.004</b>	<b>2.14</b>	<b>0.006</b>	<b>0.006</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.005</b>
<b>Minimum</b>	<b>92</b>	<b>7.67</b>	<b>0.002</b>	<b>0.67</b>	<b>0.006</b>	<b>0.006</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.003</b>
<b>Maximum</b>	<b>1337</b>	<b>8.08</b>	<b>0.009</b>	<b>4.00</b>	<b>0.007</b>	<b>0.007</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.008</b>

##### February

No. Days Discharged	28								
2-Feb-22	420.72	8.07	0.002	2.7	0.006	0.005	0.0001	0.007	0.005
4-Feb-22	968.16	8.18	0.011	3.3					
7-Feb-22	1184.88	7.97	0.007	3					
9-Feb-22	1092.48	8.07	0.008	0.67	0.006	0.006	0.0001	0.007	0.005
11-Feb-22	1129.92	8.08	0.008	3.7					
14-Feb-22	1048.8	7.95	0.005	4					
16-Feb-22	1351.68	8.06	0.002	3.7	0.007	0.006	0.0001	0.007	0.005
18-Feb-22	1240.08	8.01	0.002	3.3					
22-Feb-22	1362.24	7.97	0.004	2.7					
23-Feb-22	1626.48	7.94	0.002	2.3	0.006	0.006	0.0001	0.007	0.004
25-Feb-22	1160.16	8	0.017	3					
28-Feb-22	1400.88	7.95	0.012	3					
<b>Average</b>	<b>1166</b>	<b>8.02</b>	<b>0.007</b>	<b>2.95</b>	<b>0.006</b>	<b>0.006</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.005</b>
<b>Minimum</b>	<b>421</b>	<b>7.94</b>	<b>0.002</b>	<b>0.67</b>	<b>0.006</b>	<b>0.005</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.004</b>
<b>Maximum</b>	<b>1626</b>	<b>8.18</b>	<b>0.017</b>	<b>4.00</b>	<b>0.007</b>	<b>0.006</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.005</b>

## MISA Cover Letter Public Report- Section 35

### (b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

#### MWSP

Concentrations										
	Flow Rate	Lab pH	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc	
	m <sup>3</sup> /day	pH unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
<b>March</b>	<b>No. Days Discharged</b>	<b>31</b>								
	2-Mar-22	1320.72	7.96	0.005	3	0.006	0.004	0.0001	0.007	0.005
	4-Mar-22	1606.8	7.86	0.004	2.3					
	7-Mar-22	1570.32	8.18	0.016	2					
	9-Mar-22	1623.12	8.06	0.004	2	0.007	0.006	0.0001	0.008	0.006
	11-Mar-22	1639.92	7.82	0.005	2.3					
	14-Mar-22	833.76	7.99	0.005	2					
	16-Mar-22	988.8	8.14	0.004	1.3	0.007	0.006	0.0001	0.007	0.006
	18-Mar-22	600.24	8	0.008	0.67					
	21-Mar-22	618.72	8.02	0.005	1					
	23-Mar-22	844.8	8.07	0.01	1	0.007	0.006	0.0001	0.008	0.007
	25-Mar-22	642.24	8.1	0.006	1					
	28-Mar-22	909.36	7.89	0.002	0.67					
	30-Mar-22	839.76	8.12	0.007	0.67	0.005	0.006	0.0001	0.007	0.005
<b>Average</b>		<b>1080</b>	<b>8.02</b>	<b>0.006</b>	<b>1.53</b>	<b>0.006</b>	<b>0.006</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.006</b>
<b>Minimum</b>		<b>600</b>	<b>7.82</b>	<b>0.002</b>	<b>0.67</b>	<b>0.005</b>	<b>0.004</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.005</b>
<b>Maximum</b>		<b>1640</b>	<b>8.18</b>	<b>0.016</b>	<b>3.00</b>	<b>0.007</b>	<b>0.006</b>	<b>0.0001</b>	<b>0.008</b>	<b>0.007</b>
<b>Quarter 2</b>	<b>No. Days Discharged</b>	<b>30</b>								
<b>April</b>										
	1-Apr-22	727.2	8.03	0.009	1.3					
	4-Apr-22	683.04	7.99	0.006	1.3					
	6-Apr-22	725.04	8.21	0.007	0.67	0.005	0.009	0.0001	0.008	0.007
	8-Apr-22	942.72	8.12	0.007	0.67					
	11-Apr-22	898.08	7.92	0.01	0.67					
	13-Apr-22	916.56	7.86	0.006	0.67	0.005	0.006	0.0001	0.007	0.007
	14-Apr-22	762	7.88	0.007	1					
	19-Apr-22	695.04	8.03	0.008	0.67					
	20-Apr-22	1054.56	8.2	0.013	0.67	0.005	0.006	0.0001	0.007	0.005
	22-Apr-22	884.64	7.99	0.003	1					
	25-Apr-22	706.8	8.16	0.003	0.67					
	27-Apr-22	858.48	8.16	0.003	0.67	0.005	0.005	0.0001	0.007	0.003
	29-Apr-22	718.08	8.11	0.004	0.67					
<b>Average</b>		<b>813</b>	<b>8.05</b>	<b>0.007</b>	<b>0.82</b>	<b>0.005</b>	<b>0.007</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.006</b>
<b>Minimum</b>		<b>683</b>	<b>7.86</b>	<b>0.003</b>	<b>0.67</b>	<b>0.005</b>	<b>0.005</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.003</b>
<b>Maximum</b>		<b>1055</b>	<b>8.21</b>	<b>0.013</b>	<b>1.30</b>	<b>0.005</b>	<b>0.009</b>	<b>0.0001</b>	<b>0.008</b>	<b>0.007</b>

## MISA Cover Letter Public Report- Section 35

### (b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

#### MWSP

Concentrations										
	Flow Rate	Lab pH	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc	
	m <sup>3</sup> /day	pH unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
<b>May</b>	<b>No. Days Discharged</b>	<b>31</b>								
	2-May-22	625.68	8.1	0.011	0.67					
	4-May-22	465.36	8.19	0.085	1	0.005	0.008	0.0001	0.007	0.006
	6-May-22	106.56	8.17	0.002	1.7					
	12-May-22	1516.8	8.35	0.006	1.7	0.005	0.007	0.0001	0.007	0.009
	13-May-22	712.8	8.23	0.005	1.3					
	16-May-22									
	18-May-22	-4.32	8.19	0.003	1.7	0.007	0.005	0.0001	0.008	0.003
	20-May-22	408.72	8.04	0.002	3.7					
	24-May-22	1.2	8.24	0.002	2					
	25-May-22	0.48	8.22	0.002	1	0.006	0.005	0.0001	0.006	0.002
	27-May-22									
	30-May-22	397.2	8.28	0.002	2.7					
<b>Average</b>		<b>423</b>	<b>8.20</b>	<b>0.012</b>	<b>1.75</b>	<b>0.006</b>	<b>0.006</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.005</b>
<b>Minimum</b>		<b>-4</b>	<b>8.04</b>	<b>0.002</b>	<b>0.67</b>	<b>0.005</b>	<b>0.005</b>	<b>0.0001</b>	<b>0.006</b>	<b>0.002</b>
<b>Maximum</b>		<b>1517</b>	<b>8.35</b>	<b>0.085</b>	<b>3.70</b>	<b>0.007</b>	<b>0.008</b>	<b>0.0001</b>	<b>0.008</b>	<b>0.009</b>

Concentrations										
	Flow Rate	Lab pH	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc	
	m <sup>3</sup> /day	pH unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
<b>June</b>	<b>No. Days Discharged</b>	<b>25</b>								
	1-Jun-22	1	8.18	0.002	1	0.009	0.006	0.0001	0.006	0.003
	3-Jun-22	1	8.13	0.002	4.7					
	6-Jun-22	1	7.94	0.002	7.67					
	8-Jun-22	390.48	8.01	0.004	2.3	0.023	0.004	0.0001	0.011	0.003
	13-Jun-22	0.24	8.13	0.002	1					
	15-Jun-22	1.92	7.9	0.002	2.7	0.016	0.004	0.0001	0.008	0.003
	17-Jun-22	714	8.2	0.002	1.7					
	20-Jun-22	472.56	8.26	0.009	2.3					
	22-Jun-22	116.4	8.28	0.005	0.67	0.01	0.007	0.0001	0.006	0.003
	24-Jun-22	6.48	8.29	0.002	1.3					
	27-Jun-22	217.2	8.31	0.006	1					
	29-Jun-22	904.08	8.34	0.002	1.7	0.011	0.006	0.0001	0.006	0.003
	30-Jun-22	704.88	8.21	0.002	0.67					
<b>Average</b>		<b>294</b>	<b>8.17</b>	<b>0.003</b>	<b>2.31</b>	<b>0.015</b>	<b>0.005</b>	<b>0.0001</b>	<b>0.008</b>	<b>0.003</b>
<b>Minimum</b>		<b>0</b>	<b>7.90</b>	<b>0.002</b>	<b>0.67</b>	<b>0.010</b>	<b>0.004</b>	<b>0.0001</b>	<b>0.006</b>	<b>0.003</b>
<b>Maximum</b>		<b>904</b>	<b>8.34</b>	<b>0.009</b>	<b>7.67</b>	<b>0.023</b>	<b>0.007</b>	<b>0.0001</b>	<b>0.011</b>	<b>0.003</b>

## MISA Cover Letter Public Report- Section 35

### (b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

#### MWSP

Concentrations									
	Flow Rate	Lab pH	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc
	m <sup>3</sup> /day	pH unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

#### Quarter 3

July	No. Days Discharged	30								
	5-Jul-22	584.16	8.2	0.004	0.67					
	6-Jul-22	2.88	8.36	0.004	2	0.011	0.005	0.0001	0.005	0.004
	8-Jul-22	582	8.24	0.004	1.3					
	11-Jul-22	1593.36	8.39	0.002	1					
	13-Jul-22	920.64	8.3	0.006	1	0.013	0.006	0.0001	0.005	0.001
	15-Jul-22	560.88	8.33	0.002	1					
	18-Jul-22	447.12	8.41	0.008	1					
	20-Jul-22	1343.76	8.41	0.005	1.7	0.012	0.006	0.0001	0.005	0.001
	22-Jul-22	1312.08	8.15	0.003	1					
	27-Jul-22	1148.4	8.21	0.002	1	0.013	0.005	0.0001	0.005	0.001
	29-Jul-22	1562.16	8.17	0.002	0.67					
Average		947	8.30	0.004	1.17	0.012	0.006	0.0001	0.005	0.002
Minimum		3	8.15	0.002	0.67	0.011	0.005	0.0001	0.005	0.001
Maximum		1593	8.41	0.008	2.00	0.013	0.006	0.0001	0.005	0.004

#### Quarter 3

August	No. Days Discharged	31								
	2-Aug-22	1062	8.28	0.003	0.67					
	3-Aug-22	1224.48	8.2	0.019	1	0.013	0.006	0.0001	0.005	0.001
	5-Aug-22	574.8	8.16	0.004	0.67					
	8-Aug-22	951.36	8.26	0.002	3.7					
	10-Aug-22	641.76	8.27	0.017	1.7	0.013	0.005	0.0001	0.005	0.002
	12-Aug-22	346.32	8.24	0.007	1					
	15-Aug-22	602.16	8.3	0.004	1					
	17-Aug-22	314.16	8.35	0.002	1	0.014	0.005	0.0001	0.004	0.002
	19-Aug-22	444.72	8.29	0.006	1.7					
	22-Aug-22	1047.84	8.05	0.016	1.3					
	24-Aug-22	909.36	8.25	0.004	1	0.012	0.005	0.0001	0.004	0.001
	26-Aug-22	1214.88	8.1	0.002	1.7					
	29-Aug-22	1751.04	8.1	0.002	1					
	31-Aug-22	1551.84	8.14	0.002	1	0.013	0.005	0.0001	0.004	0.003
Average		890	8.21	0.007	1.37	0.013	0.005	0.0001	0.004	0.002
Minimum		314	8.05	0.002	0.67	0.012	0.005	0.0001	0.004	0.001
Maximum		1751	8.35	0.019	3.70	0.014	0.006	0.0001	0.005	0.003

## MISA Cover Letter Public Report- Section 35

### (b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

#### MWSP

Concentrations										
	Flow Rate	Lab pH	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc	
	m <sup>3</sup> /day	pH unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
<b>September</b>	<b>No. Days Discharged</b>	<b>30</b>								
	2-Sep-22	852.48	8.05	0.003	1.7					
	6-Sep-22	591.84	8.28	0.002	1					
	7-Sep-22	784.32	8.25	0.002	1	0.013	0.005	0.0001	0.004	0.002
	9-Sep-22	240	8.24	0.003	0.67					
	12-Sep-22	1069.2	8.19	0.002	1					
	14-Sep-22	470.4	8.24	0.006	1	0.013	0.006	0.0001	0.004	0.003
	16-Sep-22	1033.68	8.11	0.002	1.7					
	19-Sep-22	1062.72	8.09	0.003	1					
	21-Sep-22	1049.52	8.17	0.051	1.3	0.012	0.006	0.0001	0.005	0.003
	23-Sep-22	1108.32	8.17	0.006	1.7					
	26-Sep-22	1190.88	8.18	0.004	0.67					
	28-Sep-22	1136.88	8.13	0.002	1.3	0.011	0.005	0.0001	0.005	0.003
	30-Sep-22	974.88	8.17	0.002	1.3					
<b>Average</b>		<b>890</b>	<b>8.17</b>	<b>0.007</b>	<b>1.18</b>	<b>0.012</b>	<b>0.006</b>	<b>0.0001</b>	<b>0.005</b>	<b>0.003</b>
<b>Minimum</b>		<b>240</b>	<b>8.05</b>	<b>0.002</b>	<b>0.67</b>	<b>0.011</b>	<b>0.005</b>	<b>0.0001</b>	<b>0.004</b>	<b>0.002</b>
<b>Maximum</b>		<b>1191</b>	<b>8.28</b>	<b>0.051</b>	<b>1.70</b>	<b>0.013</b>	<b>0.006</b>	<b>0.0001</b>	<b>0.005</b>	<b>0.003</b>
<b>October</b>	<b>No. Days Discharged</b>	<b>31</b>								
	3-Oct-22	614.64	8.1	0.003	1.3					
	5-Oct-22	1209.84	8.11	0.012	1	0.01	0.004	0.0001	0.004	0.001
	7-Oct-22	1275.6	8.23	0.005	1					
	11-Oct-22	1139.28	8.21	0.002	2					
	12-Oct-22	1275.36	8.26	0.005	1	0.009	0.006	0.0001	0.005	0.002
	14-Oct-22	1004.16	8.26	0.002	3.3					
	17-Oct-22	1094.64	8.2	0.002	1.7					
	19-Oct-22	1150.8	8.15	0.002	1.3	0.009	0.004	0.0001	0.004	0.001
	21-Oct-22	1261.92	8	0.003	1					
	24-Oct-22	1330.56	8.18	0.004	1.3					
	26-Oct-22	1394.88	8.07	0.002	1	0.009	0.005	0.0001	0.004	0.002
	28-Oct-22	1285.2	8.1	0.002	1.3					
	31-Oct-22	1298.88	8.17	0.002	1					
<b>Average</b>		<b>1180</b>	<b>8.16</b>	<b>0.004</b>	<b>1.40</b>	<b>0.009</b>	<b>0.005</b>	<b>0.0001</b>	<b>0.004</b>	<b>0.002</b>
<b>Minimum</b>		<b>615</b>	<b>8.00</b>	<b>0.002</b>	<b>1.00</b>	<b>0.009</b>	<b>0.004</b>	<b>0.0001</b>	<b>0.004</b>	<b>0.001</b>
<b>Maximum</b>		<b>1395</b>	<b>8.26</b>	<b>0.012</b>	<b>3.30</b>	<b>0.010</b>	<b>0.006</b>	<b>0.0001</b>	<b>0.005</b>	<b>0.002</b>



## MISA Cover Letter Public Report- Section 35

### (b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

#### MWSP

Concentrations										
	Flow Rate	Lab pH	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc	
	m <sup>3</sup> /day	pH unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
<b>November</b>	<b>No. Days Discharged</b>	<b>30</b>								
	2-Nov-22	1090.8	8.19	0.003	1	0.009	0.005	0.0001	0.004	0.002
	4-Nov-22	1348.8	7.96	0.007	1					
	7-Nov-22	984	7.72	0.002	1.3					
	9-Nov-22	1634.64	7.95	0.002	1.3	0.009	0.006	0.0001	0.005	0.001
	10-Nov-22	1486.08	8.09	0.002	1					
	15-Nov-22	1277.04	8.06	0.002	1.3					
	16-Nov-22	1356.24	8.06	0.004	1.3	0.009	0.005	0.0001	0.004	0.003
	18-Nov-22	1333.92	8.1	0.004	1.7					
	21-Nov-22	1315.92	7.88	0.002	1.7					
	23-Nov-22	1277.28	8.13	0.003	2	0.007	0.004	0.0001	0.004	0.002
	25-Nov-22	1180.56	7.92	0.005	1					
	28-Nov-22	1364.88	8.02	0.005	1.3					
	30-Nov-22	1216.32	8.13	0.005	1.3	0.009	0.005	0.0001	0.004	0.007
<b>Average</b>		<b>1297</b>	<b>8.02</b>	<b>0.004</b>	<b>1.32</b>	<b>0.009</b>	<b>0.005</b>	<b>0.0001</b>	<b>0.004</b>	<b>0.003</b>
<b>Minimum</b>		<b>984</b>	<b>7.72</b>	<b>0.002</b>	<b>1.00</b>	<b>0.007</b>	<b>0.004</b>	<b>0.0001</b>	<b>0.004</b>	<b>0.001</b>
<b>Maximum</b>		<b>1635</b>	<b>8.19</b>	<b>0.007</b>	<b>2.00</b>	<b>0.009</b>	<b>0.006</b>	<b>0.0001</b>	<b>0.005</b>	<b>0.007</b>
<b>December</b>	<b>No. Days Discharged</b>	<b>27</b>								
	2-Dec-22	1204.56	8.05	0.004	2.3					
	5-Dec-22	1237.92	8.01	0.006	1					
	7-Dec-22	1257.36	8.09	0.002	1	0.009	0.005	0.0001	0.005	0.01
	9-Dec-22	1250.64	7.99	0.002	1.7					
	12-Dec-22	1183.2	8.03	0.004	1					
	14-Dec-22	1315.92	8.12	0.01	1	0.01	0.005	0.0001	0.006	0.004
	16-Dec-22	540.24	8.24	0.002	1					
	19-Dec-22	0	7.9	0.004	1					
	21-Dec-22	489.84	8.06	0.002	1.7	0.01	0.005	0.0001	0.005	0.004
	22-Dec-22	1126.8	8.01	0.002	2.3					
	27-Dec-22	1234.32	8.08	0.006	0.67					
	28-Dec-22	1041.36	8.03	0.005	1	0.009	0.006	0.0001	0.007	0.004
	30-Dec-22	1133.28	7.98	0.008	1.3					
<b>Average</b>		<b>1001</b>	<b>8.05</b>	<b>0.004</b>	<b>1.31</b>	<b>0.010</b>	<b>0.005</b>	<b>0.0001</b>	<b>0.006</b>	<b>0.006</b>
<b>Minimum</b>		<b>0</b>	<b>7.90</b>	<b>0.002</b>	<b>0.67</b>	<b>0.009</b>	<b>0.005</b>	<b>0.0001</b>	<b>0.005</b>	<b>0.004</b>
<b>Maximum</b>		<b>1316</b>	<b>8.24</b>	<b>0.010</b>	<b>2.30</b>	<b>0.010</b>	<b>0.006</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.010</b>

Notes:

Less than MDL

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### MWSP

Loadings							
	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc
Collect Date	kg/day	kg/day	kg/day	kg/day	kg/day	kg/day	kg/day

#### Quarter 1

<u>January</u>							
4-Jan-22	0.0021	2.4663					
5-Jan-22	0.0120	2.6731	0.0094	0.0080	0.0001	0.0094	0.0067
7-Jan-22	0.0000	1.5644					
10-Jan-22	0.0042	2.5265					
12-Jan-22	0.0063	1.0315	0.0048	0.0048	0.0001	0.0056	0.0024
14-Jan-22	0.0002	0.2125					
17-Jan-22	0.0016	0.5292					
19-Jan-22	0.0019	1.6373	0.0058	0.0067	0.0001	0.0067	0.0077
21-Jan-22	0.0052	0.6971					
24-Jan-22	0.0019	3.7046					
28-Jan-22	0.0053	4.8760					
31-Jan-22	0.0079	3.0488					
<b>Average Daily Load</b>	<b>0.0041</b>	<b>2.0806</b>	<b>0.0066</b>	<b>0.0065</b>	<b>0.0001</b>	<b>0.0072</b>	<b>0.0056</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.1257</b>	<b>64.4990</b>	<b>0.2056</b>	<b>0.2017</b>	<b>0.0032</b>	<b>0.2237</b>	<b>0.1733</b>

#### February

2-Feb-22	0.0008	1.1359	0.0025	0.0021	0.0000	0.0029	0.0021
4-Feb-22	0.0106	3.1949					
7-Feb-22	0.0083	3.5546					
9-Feb-22	0.0087	0.7320	0.0066	0.0066	0.0001	0.0076	
11-Feb-22	0.0090	4.1807					
14-Feb-22	0.0052	4.1952					
16-Feb-22	0.0027	5.0012	0.0095	0.0081	0.0001	0.0095	0.0068
18-Feb-22	0.0025	4.0923					
22-Feb-22	0.0054	3.6780					
23-Feb-22	0.0033	3.7409	0.0098	0.0098	0.0002	0.0114	0.0065
25-Feb-22	0.0197	3.4805					
28-Feb-22	0.0168	4.2026					
<b>Average Daily Load</b>	<b>0.0078</b>	<b>3.4324</b>	<b>0.0071</b>	<b>0.0066</b>	<b>0.0001</b>	<b>0.0079</b>	<b>0.0051</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.2175</b>	<b>96.1075</b>	<b>0.1981</b>	<b>0.1857</b>	<b>0.0031</b>	<b>0.2201</b>	<b>0.1434</b>

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### MWSP

Collect Date	Loadings						
	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc
	kg/day	kg/day	kg/day	kg/day	kg/day	kg/day	kg/day

### March

2-Mar-22	0.0066	3.9622	0.0079	0.0053	0.0001	0.0092	0.0066
4-Mar-22	0.0064	3.6956					
7-Mar-22	0.0251	3.1406					
9-Mar-22	0.0065	3.2462	0.0114	0.0097	0.0002	0.0130	0.0097
11-Mar-22	0.0082	3.7718					
14-Mar-22	0.0042	1.6675					
16-Mar-22	0.0040	1.2854	0.0069	0.0059	0.0001	0.0069	0.0059
18-Mar-22	0.0048	0.4022					
21-Mar-22	0.0031	0.6187					
23-Mar-22	0.0084	0.8448	0.0059	0.0051	0.0001	0.0068	0.0059
25-Mar-22	0.0039	0.6422					
28-Mar-22	0.0018	0.6093					
30-Mar-22	0.0059	0.5626	0.0042	0.0050	0.0001	0.0059	0.0042
<b>Average Daily Load</b>	<b>0.0068</b>	<b>1.8807</b>	<b>0.0073</b>	<b>0.0062</b>	<b>0.0001</b>	<b>0.0084</b>	<b>0.0065</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.2119</b>	<b>58.3021</b>	<b>0.2252</b>	<b>0.1926</b>	<b>0.0035</b>	<b>0.2591</b>	<b>0.2008</b>

### Quarter 2

#### April

1-Apr-22	0.0065	0.9454					
4-Apr-22	0.0041	0.8880					
6-Apr-22	0.0051	0.4858	0.0036	0.0065	0.0001	0.0058	
8-Apr-22	0.0066	0.6316					
11-Apr-22	0.0090	0.6017					
13-Apr-22	0.0055	0.6141	0.0046	0.0055	0.0001	0.0064	0.0064
14-Apr-22	0.0053	0.7620					
19-Apr-22	0.0056	0.4657					
20-Apr-22	0.0137	0.7066	0.0053	0.0063	0.0001	0.0074	0.0053
22-Apr-22	0.0027	0.8846					
25-Apr-22	0.0021	0.4736					
27-Apr-22	0.0026	0.5752	0.0043	0.0043	0.0001	0.0060	0.0026
29-Apr-22	0.0029	0.4811					
<b>Average Daily Load</b>	<b>0.0055</b>	<b>0.6550</b>	<b>0.0044</b>	<b>0.0057</b>	<b>0.0001</b>	<b>0.0064</b>	<b>0.0048</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.1653</b>	<b>19.6506</b>	<b>0.1333</b>	<b>0.1698</b>	<b>0.0027</b>	<b>0.1921</b>	<b>0.1426</b>

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### MWSP

Loadings							
Collect Date	Total Cyanide kg/day	Suspended Solids kg/day	Total Arsenic kg/day	Total Copper kg/day	Total Lead kg/day	Total Nickel kg/day	Total Zinc kg/day

#### May

2-May-22	0.0069	0.4192					
4-May-22	0.0396	0.4654	0.0023	0.0037	0.0000	0.0033	0.0028
6-May-22	0.0002	0.1812					
12-May-22	0.0091	2.5786	0.0076	0.0106	0.0002	0.0106	0.0137
13-May-22	0.0036	0.9266					
16-May-22							
18-May-22	0.0000	-0.0073	0.0000	0.0000	0.0000	0.0000	0.0000
20-May-22	0.0008	1.5123					
24-May-22	0.0000	0.0024					
25-May-22	0.0000	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000
27-May-22							
30-May-22	0.0008	1.0724					
<b>Average Daily Load</b>	<b>0.0061</b>	<b>0.7151</b>	<b>0.0025</b>	<b>0.0036</b>	<b>0.0000</b>	<b>0.0035</b>	<b>0.0041</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.1888</b>	<b>22.1686</b>	<b>0.0766</b>	<b>0.1110</b>	<b>0.0015</b>	<b>0.1073</b>	<b>0.1273</b>

#### June

1-Jun-22	0.0000	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000
3-Jun-22	0.0000	0.0047					
6-Jun-22	0.0000	0.0077					
8-Jun-22	0.0016	0.8981	0.0090	0.0016	0.0000	0.0043	0.0012
13-Jun-22	0.0000	0.0002					
15-Jun-22	0.0000	0.0052	0.0000	0.0000	0.0000	0.0000	0.0000
17-Jun-22	0.0014	1.2138					
20-Jun-22	0.0043	1.0869					
22-Jun-22	0.0006	0.0780	0.0012	0.0008	0.0000	0.0007	0.0003
24-Jun-22	0.0000	0.0084					
27-Jun-22	0.0013	0.2172					
29-Jun-22	0.0018	1.5369	0.0099	0.0054	0.0001	0.0054	0.0027
30-Jun-22	0.0014	0.4723					
<b>Average Daily Load</b>	<b>0.0010</b>	<b>0.4608</b>	<b>0.0050</b>	<b>0.0020</b>	<b>0.0000</b>	<b>0.0026</b>	<b>0.0011</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.0258</b>	<b>11.5196</b>	<b>0.1258</b>	<b>0.0488</b>	<b>0.0009</b>	<b>0.0652</b>	<b>0.0265</b>

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### MWSP

Collect Date	Loadings						
	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc
	kg/day	kg/day	kg/day	kg/day	kg/day	kg/day	kg/day

### Quarter 3

#### July

5-Jul-22	0.0023	0.3914					
6-Jul-22	0.0000	0.0058	0.0000	0.0000	0.0000	0.0000	0.0000
8-Jul-22	0.0023	0.7566					
11-Jul-22	0.0032	1.5934					
13-Jul-22	0.0055	0.9206	0.0120	0.0055	0.0001	0.0046	0.0009
15-Jul-22	0.0011	0.5609					
18-Jul-22	0.0036	0.4471					
20-Jul-22	0.0067	2.2844	0.0161	0.0081	0.0001	0.0067	0.0013
22-Jul-22	0.0039	1.3121					
27-Jul-22	0.0023	1.1484	0.0149	0.0057	0.0001	0.0057	0.0011
29-Jul-22	0.0031	1.0466					
<b>Average Daily Load</b>	<b>0.0032</b>	<b>1.0076</b>	<b>0.0108</b>	<b>0.0048</b>	<b>0.0001</b>	<b>0.0043</b>	<b>0.0009</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.0955</b>	<b>30.2276</b>	<b>0.3229</b>	<b>0.1451</b>	<b>0.0026</b>	<b>0.1281</b>	<b>0.0257</b>

### Quarter 3

#### August

2-Aug-22	0.0032	0.7115					
3-Aug-22	0.0233	1.2245	0.0159	0.0073	0.0001	0.0061	0.0012
5-Aug-22	0.0023	0.3851					
8-Aug-22	0.0019	3.5200					
10-Aug-22	0.0109	1.0910	0.0083	0.0032	0.0001	0.0032	0.0013
12-Aug-22	0.0024	0.3463					
15-Aug-22	0.0024	0.6022					
17-Aug-22	0.0006	0.3142	0.0044	0.0016	0.0000	0.0013	0.0006
19-Aug-22	0.0027	0.7560					
22-Aug-22	0.0168	1.3622					
24-Aug-22	0.0036	0.9094	0.0109	0.0045	0.0001	0.0036	0.0009
26-Aug-22	0.0024	2.0653					
29-Aug-22	0.0035	1.7510					
31-Aug-22	0.0031	1.5518	0.0202	0.0078	0.0002	0.0062	0.0047
<b>Average Daily Load</b>	<b>0.0058</b>	<b>1.2215</b>	<b>0.0119</b>	<b>0.0049</b>	<b>0.0001</b>	<b>0.0041</b>	<b>0.0017</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.1811</b>	<b>37.8653</b>	<b>0.3704</b>	<b>0.1515</b>	<b>0.0029</b>	<b>0.1267</b>	<b>0.0539</b>

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### MWSP

Loadings							
	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc
Collect Date	kg/day	kg/day	kg/day	kg/day	kg/day	kg/day	kg/day
<b>September</b>							
2-Sep-22	0.0026	1.4492					
6-Sep-22	0.0012	0.5918					
7-Sep-22	0.0016	0.7843	0.0102	0.0039	0.0001	0.0031	0.0016
9-Sep-22	0.0007	0.1608					
12-Sep-22	0.0021	1.0692					
14-Sep-22	0.0028	0.4704	0.0061	0.0028	0.0000	0.0019	0.0014
16-Sep-22	0.0021	1.7573					
19-Sep-22	0.0032	1.0627					
21-Sep-22	0.0535	1.3644	0.0126	0.0063	0.0001	0.0052	0.0031
23-Sep-22	0.0066	1.8841					
26-Sep-22	0.0048	0.7979					
28-Sep-22	0.0023	1.4779	0.0125	0.0057	0.0001	0.0057	0.0034
30-Sep-22	0.0019	1.2673					
<b>Average Daily Load</b>	<b>0.0066</b>	<b>1.0875</b>	<b>0.0104</b>	<b>0.0047</b>	<b>0.0001</b>	<b>0.0040</b>	<b>0.0024</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.1971</b>	<b>32.6249</b>	<b>0.3106</b>	<b>0.1404</b>	<b>0.0026</b>	<b>0.1196</b>	<b>0.0715</b>

<b>October</b>							
3-Oct-22	0.0018	0.7990					
5-Oct-22	0.0145	1.2098	0.0121	0.0048	0.0001	0.0048	0.0012
7-Oct-22	0.0064	1.2756					
11-Oct-22	0.0023	2.2786					
12-Oct-22	0.0064	1.2754	0.0115	0.0077	0.0001	0.0064	0.0026
14-Oct-22	0.0020	3.3137					
17-Oct-22	0.0022	1.8609					
19-Oct-22	0.0023	1.4960	0.0104	0.0046	0.0001	0.0046	0.0012
21-Oct-22	0.0038	1.2619					
24-Oct-22	0.0053	1.7297					
26-Oct-22	0.0028	1.3949	0.0126	0.0070	0.0001	0.0056	0.0028
28-Oct-22	0.0026	1.6708					
31-Oct-22	0.0026	1.2989					
<b>Average Daily Load</b>	<b>0.0042</b>	<b>1.6050</b>	<b>0.0116</b>	<b>0.0060</b>	<b>0.0001</b>	<b>0.0053</b>	<b>0.0019</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.1311</b>	<b>49.7555</b>	<b>0.3603</b>	<b>0.1865</b>	<b>0.0039</b>	<b>0.1658</b>	<b>0.0597</b>

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### MWSP

Loadings							
Collect Date	Total Cyanide kg/day	Suspended Solids kg/day	Total Arsenic kg/day	Total Copper kg/day	Total Lead kg/day	Total Nickel kg/day	Total Zinc kg/day

#### November

2-Nov-22	0.0033	1.0908	0.0098	0.0055	0.0001	0.0044	0.0022
4-Nov-22	0.0094	1.3488					
7-Nov-22	0.0020	1.2792					
9-Nov-22	0.0033	2.1250	0.0147	0.0098	0.0002	0.0082	0.0016
10-Nov-22	0.0030	1.4861					
15-Nov-22	0.0026	1.6602					
16-Nov-22	0.0054	1.7631	0.0122	0.0068	0.0001	0.0054	0.0041
18-Nov-22	0.0053	2.2677					
21-Nov-22	0.0026	2.2371					
23-Nov-22	0.0038	2.5546	0.0089	0.0051	0.0001	0.0051	0.0026
25-Nov-22	0.0059	1.1806					
28-Nov-22	0.0068	1.7743					
30-Nov-22	0.0061	1.5812	0.0109	0.0061	0.0001	0.0049	0.0085
<b>Average Daily Load</b>	<b>0.0046</b>	<b>1.7191</b>	<b>0.0113</b>	<b>0.0066</b>	<b>0.0001</b>	<b>0.0056</b>	<b>0.0038</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.1373</b>	<b>51.5737</b>	<b>0.3397</b>	<b>0.1994</b>	<b>0.0039</b>	<b>0.1676</b>	<b>0.1137</b>

#### December

2-Dec-22	0.0048	2.7705					
5-Dec-22	0.0074	1.2379					
7-Dec-22	0.0025	1.2574	0.0113	0.0063	0.0001	0.0063	0.0126
9-Dec-22	0.0025	2.1261					
12-Dec-22	0.0047	1.1832					
14-Dec-22	0.0132	1.3159	0.0132	0.0066	0.0001	0.0079	0.0053
16-Dec-22	0.0011	0.5402					
19-Dec-22	0.0000	0.0000					
21-Dec-22	0.0010	0.8327	0.0049	0.0024	0.0000	0.0024	0.0020
22-Dec-22	0.0023	2.5916					
27-Dec-22	0.0074	0.8270					
28-Dec-22	0.0052	1.0414	0.0094	0.0062	0.0001	0.0073	0.0042
30-Dec-22	0.0091	1.4733					
<b>Average Daily Load</b>	<b>0.0047</b>	<b>1.3229</b>	<b>0.0097</b>	<b>0.0054</b>	<b>0.0001</b>	<b>0.0060</b>	<b>0.0060</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.1270</b>	<b>35.7173</b>	<b>0.2615</b>	<b>0.1456</b>	<b>0.0028</b>	<b>0.1615</b>	<b>0.1617</b>

<b>Total Annual Load kg/year</b>	<b>1.80</b>	<b>510.01</b>	<b>2.93</b>	<b>1.88</b>	<b>0.03</b>	<b>1.94</b>	<b>1.30</b>
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## MISA Cover Letter Public Report Section 35

### (c) Summary of Plant Retention Times calculated under Sections 15, 16, 17

#### MWSP

Daily Flowrates (dates when samples were collected for weekly and thrice weekly tests) for 90 day period prior to calculation of retention time (July, August, September)

Date of Calculation: 90 Day Period Begins:			
Flowrates for 90 day period prior to calculation of discharge:			
Date 2021	Flowrate (m3/day)	Date 2021	Flowrate (m3/day)
1-Jul-22	1080	15-Aug-22	602.16
2-Jul-22	28.08	16-Aug-22	475.44
3-Jul-22	362.4	17-Aug-22	314.16
4-Jul-22	180	18-Aug-22	171.6
5-Jul-22	584.16	19-Aug-22	444.72
6-Jul-22	2.88	20-Aug-22	860.88
7-Jul-22	-1.44	21-Aug-22	775.2
8-Jul-22	582	22-Aug-22	1047.84
9-Jul-22	638.64	23-Aug-22	1036.08
10-Jul-22	524.64	24-Aug-22	909.36
11-Jul-22	1593.36	25-Aug-22	1196.64
12-Jul-22	1218.48	26-Aug-22	1214.88
13-Jul-22	920.64	27-Aug-22	1041.12
14-Jul-22	954	28-Aug-22	1255.92
15-Jul-22	560.88	29-Aug-22	1751.04
16-Jul-22	411.84	30-Aug-22	1617.84
17-Jul-22	893.28	31-Aug-22	1551.84
18-Jul-22	447.12	1-Sep-22	1139.28
19-Jul-22	744.48	2-Sep-22	852.48
20-Jul-22	1343.76	3-Sep-22	1344.48
21-Jul-22	1598.88	4-Sep-22	1286.88
22-Jul-22	1312.08	5-Sep-22	495.12
23-Jul-22	1370.16	6-Sep-22	591.84
24-Jul-22	1304.16	7-Sep-22	784.32
25-Jul-22	2190.96	8-Sep-22	413.04
26-Jul-22	1306.56	9-Sep-22	240
27-Jul-22	1148.4	10-Sep-22	805.68
28-Jul-22	1427.52	11-Sep-22	1664.4
29-Jul-22	1562.16	12-Sep-22	1069.2
30-Jul-22	1272.24	13-Sep-22	651.36
31-Jul-22	759.6	14-Sep-22	470.4
1-Aug-22	1416.96	15-Sep-22	760.08
2-Aug-22	1062	16-Sep-22	1033.68
3-Aug-22	1224.48	17-Sep-22	1118.88
4-Aug-22	1300.8	18-Sep-22	1051.2
5-Aug-22	574.8	19-Sep-22	1062.72
6-Aug-22	523.68	20-Sep-22	1050.96
7-Aug-22	1113.12	21-Sep-22	1049.52
8-Aug-22	951.36	22-Sep-22	954.48
9-Aug-22	670.56	23-Sep-22	1108.32
10-Aug-22	641.76	24-Sep-22	737.04
11-Aug-22	386.64	25-Sep-22	1094.16
12-Aug-22	346.32	26-Sep-22	1190.88
13-Aug-22	315.36	27-Sep-22	1203.36
14-Aug-22	305.76	28-Sep-22	1136.88

30 Maximum flows during 90 Day Period:	
Date 2020	Flowrate (m3/day)
25-Jul-22	2190.96
29-Aug-22	1751.04
11-Sep-22	1664.4
30-Aug-22	1617.84
21-Jul-22	1598.88
11-Jul-22	1593.36
29-Jul-22	1562.16
31-Aug-22	1551.84
28-Jul-22	1427.52
1-Aug-22	1416.96
23-Jul-22	1370.16
3-Sep-22	1344.48
20-Jul-22	1343.76
22-Jul-22	1312.08
26-Jul-22	1306.56
24-Jul-22	1304.16
4-Aug-22	1300.8
4-Sep-22	1286.88
30-Jul-22	1272.24
28-Aug-22	1255.92
3-Aug-22	1224.48
12-Jul-22	1218.48
26-Aug-22	1214.88
27-Sep-22	1203.36
25-Aug-22	1196.64
26-Sep-22	1190.88
27-Jul-22	1148.4
1-Sep-22	1139.28
28-Sep-22	1136.88
17-Sep-22	1118.88

Average Flowrate	1,375	m3/day
<i>(of 30 maximum flows in previous 90 days)</i>		
Volume of pond	7,282	m3
<b>Calculated</b>		
<b>Retention Time</b>	<b>5</b>	<b>days</b>



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(d) Summary of Process Effluent- Weekly and Thrice Weekly Monitoring, pH measurement, Lethality Monitoring and Chronic Toxicity Testing under Sections 22, 23, 25, 26, 27, 28

Summary of results from monitoring performed under sections 22, 23, 25

All samples were collected as per requirements of Sections 22, 23 & 25 of the regulation during discharge periods.

Summary of results from monitoring performed under sections 26, 27, & 28

All samples were collected as per requirements of Sections 26, 27 & 28 of the regulation during discharge periods.

**Results**

Date	Rainbow Trout	Daphnia Magna	Ceriodaphnia Dubia		Fathead Minnow
	% mortality @ 100% Conc		Reproduction	Survival	Growth
5-Jan-22	10%	0%	>100%	>100%	>100
6-Apr-22	0%	0%	>100%	>100%	
6-Jul-22	0%	0%	>100%	19.5%	>100
5-Oct-22	0%	3.3%	>100%	>100%	

**MWSP**

**MISA Public Report Section 35**

(e) Summary of calculations performed under Sections 31(6), 32(1) and 32(4)

*All flow monitoring results are recorded by a calibrated transducer and recorder.  
Flow monitoring calibrations are completed and certified annually.*

(f) Summary of concentrations or other results that exceeded a limit under Sections 18 or 19

*There were no exceedences of the limits prescribed in Schedule 1 of the regulation.*

(g)(h) Summary of incidents

*There were no incidents in which the effluent discharged from the facility other than through the sampling point establi.*

**Hollinger Mine  
Little Pearl Mine Water (LPMW)  
Final Discharge**

## MISA Cover Letter Public Report- Section 35

(b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

### LPMW

Concentrations									
Collect Date	Flow Rate	Lab pH	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc
	m <sup>3</sup> /day	pH unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

### Quarter 1

#### January

No. Days Discharged

31

4-Jan-22	11691.4	7.85	0.004	3.7					
5-Jan-22	11691.4	7.99	0.002	3	0.002	0.003	0.0003	0.013	0.053
7-Jan-22	12108.8	7.93	0.002	3.3					
10-Jan-22	11484.53	7.68	0.005	3.7					
12-Jan-22	10669.51	7.78	0.002	4.3	0.002	0.002	0.0004	0.012	0.055
14-Jan-22	10669.51	7.38	0.002	7.33					
17-Jan-22	10468.9	7.5	0.003	1.3					
19-Jan-22	10468.9	7.62	0.004	3	0.003	0.002	0.0004	0.015	0.079
21-Jan-22	10071.51	7.7	0.02	4.7					
24-Jan-22	10071.51	7.53	0.002	3.3					
26-Jan-22	9874.75	7.78	0.002	3	0.003	0.002	0.0004	0.017	0.09
28-Jan-22	9874.75	7.78	0.005	3.3					
31-Jan-22	9679.3	7.62	0.003	3.7					
<b>Average</b>	<b>10679</b>	<b>7.70</b>	<b>0.004</b>	<b>3.66</b>	<b>0.003</b>	<b>0.002</b>	<b>0.0004</b>	<b>0.014</b>	<b>0.069</b>
<b>Minimum</b>	<b>9679</b>	<b>7.38</b>	<b>0.002</b>	<b>1.30</b>	<b>0.002</b>	<b>0.002</b>	<b>0.0003</b>	<b>0.012</b>	<b>0.053</b>
<b>Maximum</b>	<b>12109</b>	<b>7.99</b>	<b>0.020</b>	<b>7.33</b>	<b>0.003</b>	<b>0.003</b>	<b>0.0004</b>	<b>0.017</b>	<b>0.090</b>

#### February

No. Days Discharged

28

2-Feb-22	9679.3	7.79	0.002	4	0.003	0.002	0.0004	0.017	0.082
4-Feb-22	9485.13	7.99	0.006	8.33					
7-Feb-22	9874.75	7.71	0.002	5.3					
9-Feb-22	9485.13	7.91	0.003	4	0.003	0.001	0.0004	0.015	0.08
11-Feb-22	9679.3	7.91	0.002	5					
14-Feb-22	9485.13	7.56	0.002	3.3					
16-Feb-22	9292.3	7.68	0.002	3.3	0.003	0.002	0.0004	0.016	0.094
18-Feb-22	1719.1	7.77	0.002	3					
22-Feb-22	110.93	7.72	0.003	4.3					
23-Feb-22	4622.01	7.45	0.002	3.3	0.002	0.003	0.0004	0.014	0.08
25-Feb-22	9100.8	7.74	0.01	4.3					
28-Feb-22	9292.3	7.74	0.002	4.3					
<b>Average</b>	<b>7652</b>	<b>7.75</b>	<b>0.003</b>	<b>4.37</b>	<b>0.003</b>	<b>0.002</b>	<b>0.0004</b>	<b>0.016</b>	<b>0.084</b>
<b>Minimum</b>	<b>111</b>	<b>7.45</b>	<b>0.002</b>	<b>3.00</b>	<b>0.002</b>	<b>0.001</b>	<b>0.0004</b>	<b>0.014</b>	<b>0.080</b>
<b>Maximum</b>	<b>9875</b>	<b>7.99</b>	<b>0.010</b>	<b>8.33</b>	<b>0.003</b>	<b>0.003</b>	<b>0.0004</b>	<b>0.017</b>	<b>0.094</b>

## MISA Cover Letter Public Report- Section 35

(b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

### LPMW

Concentrations									
Collect Date	Flow Rate	Lab pH	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc
	m <sup>3</sup> /day	pH unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
<b>March</b>	<b>No. Days Discharged</b>	<b>31</b>							
2-Mar-22	9485.13	7.78	0.002	2.3	0.003	<b>0.001</b>	0.0004	0.017	0.098
4-Mar-22	9292.3	7.6	0.002	3.3					
7-Mar-22	10071.51	7.82	0.007	3.7					
9-Mar-22	1505.17	7.83	<b>0.002</b>	3.3	0.003	0.002	0.0002	0.015	0.083
11-Mar-22	5403.68	7.82	0.002	<b>0.67</b>					
14-Mar-22	9679.28	7.86	<b>0.002</b>	3.7					
16-Mar-22	9485.13	7.74	<b>0.002</b>	<b>0.67</b>	0.003	0.026	0.0003	0.019	0.093
18-Mar-22	11074.52	7.77	<b>0.002</b>	<b>0.67</b>					
21-Mar-22	10669.51	7.66	<b>0.002</b>	2.7					
23-Mar-22	10071.51	7.83	<b>0.002</b>	1	0.003	0.002	0.0003	0.015	0.088
25-Mar-22	6225.1	7.84	0.002	3.3					
28-Mar-22	4775.06	7.68	<b>0.002</b>	<b>0.67</b>					
30-Mar-22	9485.13	7.83	<b>0.002</b>	<b>0.67</b>	0.002	0.001	0.0002	0.014	0.082
<b>Average</b>	<b>8248</b>	<b>7.77</b>	<b>0.002</b>	<b>2.05</b>	<b>0.003</b>	<b>0.006</b>	<b>0.0003</b>	<b>0.016</b>	<b>0.089</b>
<b>Minimum</b>	<b>1505</b>	<b>7.60</b>	<b>0.002</b>	<b>0.67</b>	<b>0.002</b>	<b>0.001</b>	<b>0.0002</b>	<b>0.014</b>	<b>0.082</b>
<b>Maximum</b>	<b>11075</b>	<b>7.86</b>	<b>0.007</b>	<b>3.70</b>	<b>0.003</b>	<b>0.026</b>	<b>0.0004</b>	<b>0.019</b>	<b>0.098</b>

### Quarter 2

<b>April</b>	<b>No. Days Discharged</b>	<b>30</b>							
1-Apr-22	11074.52	7.74	0.003	<b>0.67</b>					
4-Apr-22	10468.9	7.84	0.003	1					
6-Apr-22	10669.51	8.12	0.005	4.7	0.003	0.006	0.0003	0.015	0.083
8-Apr-22	12319.32	7.92	0.002	2					
11-Apr-22	10468.9	7.76	0.009	1.7					
13-Apr-22	11278.91	7.54	0.009	11.7	0.002	0.002	0.0003	0.014	0.075
14-Apr-22	11074.52	7.64	0.01	96					
19-Apr-22	10669.51	7.73	<b>0.002</b>	3.3					
20-Apr-22	10269.56	7.98	<b>0.002</b>	1.3	0.002	0.002	0.0002	0.013	0.06
22-Apr-22	11484.53	7.97	0.016	1					
25-Apr-22	12743.99	7.99	0.003	1.3					
27-Apr-22	11899.49	7.98	0.01	1.3	0.002	0.002	0.0003	0.013	0.058
29-Apr-22	10468.9	7.94	0.003	14.3					
<b>Average</b>	<b>11145</b>	<b>7.86</b>	<b>0.006</b>	<b>10.79</b>	<b>0.002</b>	<b>0.003</b>	<b>0.0003</b>	<b>0.014</b>	<b>0.069</b>
<b>Minimum</b>	<b>10270</b>	<b>7.54</b>	<b>0.002</b>	<b>0.67</b>	<b>0.002</b>	<b>0.002</b>	<b>0.0002</b>	<b>0.013</b>	<b>0.058</b>
<b>Maximum</b>	<b>12744</b>	<b>8.12</b>	<b>0.016</b>	<b>96.00</b>	<b>0.003</b>	<b>0.006</b>	<b>0.0003</b>	<b>0.015</b>	<b>0.083</b>

## MISA Cover Letter Public Report- Section 35

(b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

### LPMW

Concentrations										
Collect Date	Flow Rate	Lab pH	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc	
	m <sup>3</sup> /day	pH unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
<b>May</b>	<b>No. Days Discharged</b>	<b>31</b>								
	2-May-22	7260.71	7.96	0.029	1.7					
	4-May-22	6393.99	7.94	0.007	1.3	0.002	0.004	0.0002	0.014	0.039
	6-May-22	5891.89	7.95	0.002	3					
	9-May-22	5727.59	7.83	0.006	1.7					
	11-May-22	5564.85	8.05	0.008	1.7	0.001	0.002	0.0002	0.011	0.01
	13-May-22	6564.38	7.99	0.002	1.7					
	16-May-22	5727.59	7.83	0.002	1.3					
	18-May-22	6225.1	7.96	0.002	1	0.001	0.001	0.0001	0.011	0.007
	20-May-22	6057.73	8.13	0.002	1					
	24-May-22	6057.73	7.86	0.002	0.67					
	25-May-22	5727.59	8.15	0.002	0.67	0.001	0.001	0.0001	0.01	0.007
	30-May-22	6564.38	8.03	0.006	2					
<b>Average</b>		<b>6147</b>	<b>7.97</b>	<b>0.006</b>	<b>1.48</b>	<b>0.001</b>	<b>0.002</b>	<b>0.0002</b>	<b>0.012</b>	<b>0.016</b>
<b>Minimum</b>		<b>5565</b>	<b>7.83</b>	<b>0.002</b>	<b>0.67</b>	<b>0.001</b>	<b>0.001</b>	<b>0.0001</b>	<b>0.010</b>	<b>0.007</b>
<b>Maximum</b>		<b>7261</b>	<b>8.15</b>	<b>0.029</b>	<b>3.00</b>	<b>0.002</b>	<b>0.004</b>	<b>0.0002</b>	<b>0.014</b>	<b>0.039</b>
<b>June</b>	<b>No. Days Discharged</b>	<b>30</b>								
	1-Jun-22	5891.89	7.74	0.002	1.7	0.001	0.001	0.0001	0.01	0.005
	3-Jun-22	5727.59	8.18	0.002	1					
	6-Jun-22	5891.89	7.93	0.002	2.3					
	8-Jun-22	6393.99	7.97	0.002	1.7	0.001	0.002	0.0001	0.01	0.009
	10-Jun-22	6909.62	7.93	0.008	1.7					
	15-Jun-22	5727.59	7.84	0.003	1	0.001	0.004	0.0003	0.01	0.009
	17-Jun-22	5891.89	7.85	0.002	1.3					
	20-Jun-22	5727.59	7.9	0.005	2					
	22-Jun-22	5244.1	7.79	0.003	1	0.001	0.001	0.0001	0.008	0.005
	24-Jun-22	5403.68	7.99	0.003	1					
	27-Jun-22	3459.5	7.85	0.008	0.67					
	29-Jun-22	5891.89	7.79	0.002	0.67	0.001	0.001	0.0001	0.007	0.004
	30-Jun-22	5727.59	8.03	0.002	0.67					
<b>Average</b>		<b>5684</b>	<b>7.91</b>	<b>0.003</b>	<b>1.29</b>	<b>0.001</b>	<b>0.002</b>	<b>0.0001</b>	<b>0.009</b>	<b>0.006</b>
<b>Minimum</b>		<b>3460</b>	<b>7.74</b>	<b>0.002</b>	<b>0.67</b>	<b>0.001</b>	<b>0.001</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.004</b>
<b>Maximum</b>		<b>6910</b>	<b>8.18</b>	<b>0.008</b>	<b>2.30</b>	<b>0.001</b>	<b>0.004</b>	<b>0.0003</b>	<b>0.010</b>	<b>0.009</b>

## MISA Cover Letter Public Report- Section 35

(b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

### LPMW

Concentrations									
Collect Date	Flow Rate	Lab pH	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc
	m <sup>3</sup> /day	pH unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

### Quarter 3

July	No. Days Discharged	31								
5-Jul-22	5564.85	7.74	0.002	0.67						
6-Jul-22	6736.26	8.17	0.021	0.67	0.001	0.002	0.0001	0.009	0.009	
8-Jul-22	5727.59	8.07	0.003	0.67						
11-Jul-22	7260.7	7.79	0.002	0.67						
13-Jul-22	5891.89	8.11	0.006	1.3	0.002	0.002	0.002	0.008	0.005	
15-Jul-22	5891.89	8.12	0.002	2.3						
18-Jul-22	5564.85	8.07	0.002	1						
20-Jul-22	5564.85	8.09	0.004	2	0.001	0.004	0.0001	0.009	0.005	
22-Jul-22	7084.43	8.15	0.002	1						
25-Jul-22	6564.38	7.65	0.004	3.7						
27-Jul-22	5727.59	7.92	0.002	1	0.002	0.001	0.0001	0.007	0.005	
29-Jul-22	5891.89	7.94	0.005	0.67						
<b>Average</b>	<b>6123</b>	<b>7.99</b>	<b>0.005</b>	<b>1.30</b>	<b>0.002</b>	<b>0.002</b>	<b>0.0006</b>	<b>0.008</b>	<b>0.006</b>	
<b>Minimum</b>	<b>5565</b>	<b>7.65</b>	<b>0.002</b>	<b>0.67</b>	<b>0.001</b>	<b>0.001</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.005</b>	
<b>Maximum</b>	<b>7261</b>	<b>8.17</b>	<b>0.021</b>	<b>3.70</b>	<b>0.002</b>	<b>0.004</b>	<b>0.0020</b>	<b>0.009</b>	<b>0.009</b>	

### August

August	No. Days Discharged	31								
2-Aug-22	7980.07	8.1	0.003	0.67						
3-Aug-22	6393.99	7.9	0.002	0.67	0.002	0.001	0.0001	0.007	0.004	
5-Aug-22	6057.73	8.16	0.002	0.67						
8-Aug-22	5727.59	8.07	0.003	1.3						
10-Aug-22	6057.73	8.13	0.065	1	0.001	0.001	0.0001	0.009	0.006	
12-Aug-22	6736.26	8.04	0.002	1.3						
15-Aug-22	9874.75	7.95	0.004	1.7						
17-Aug-22	12319.32	8.18	0.007	1.7	0.002	0.001	0.0001	0.007	0.005	
19-Aug-22	6736.26	8.02	0.004	9						
22-Aug-22	16077.64	7.89	0.003	1						
24-Aug-22	9100.78	8.17	0.003	1	0.002	0.001	0.0001	0.006	0.004	
26-Aug-22	7438.42	7.72	0.002	1						
29-Aug-22	6564.38	7.86	0.004	1						
31-Aug-22	14489.86	7.87	0.003	0.67	0.002	0.002	0.0001	0.007	0.007	
<b>Average</b>	<b>8682</b>	<b>8.00</b>	<b>0.008</b>	<b>1.62</b>	<b>0.002</b>	<b>0.001</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.005</b>	
<b>Minimum</b>	<b>5728</b>	<b>7.72</b>	<b>0.002</b>	<b>0.67</b>	<b>0.001</b>	<b>0.001</b>	<b>0.0001</b>	<b>0.006</b>	<b>0.004</b>	
<b>Maximum</b>	<b>16078</b>	<b>8.18</b>	<b>0.065</b>	<b>9.00</b>	<b>0.002</b>	<b>0.002</b>	<b>0.0001</b>	<b>0.009</b>	<b>0.007</b>	

## MISA Cover Letter Public Report- Section 35

(b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

### LPMW

Concentrations										
Collect Date	Flow Rate	Lab pH	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc	
	m <sup>3</sup> /day	pH unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
<b>September</b>	<b>No. Days Discharged</b>	<b>30</b>								
2-Sep-22	10468.9	7.84	0.003	1.3						
6-Sep-22	8910.6	7.96	0.002	1.3						
7-Sep-22	8721.77	8.16	0.003	0.67	0.002	0.002	0.0001	0.007	0.006	
9-Sep-22	6736.26	8.15	0.015	1						
12-Sep-22	5727.59	8.07	0.002	0.67						
14-Sep-22	4929.78	7.8	0.002	1	0.001	0.002	0.0001	0.007	0.007	
16-Sep-22	5403.68	8.11	0.002	1						
19-Sep-22	14267.56	8.01	0.003	0.67						
21-Sep-22	14937.88	8.01	0.003	53	0.005	0.012	0.0026	0.014	0.04	
23-Sep-22	15163.59	8.01	0.002	1						
26-Sep-22	5727.59	7.97	0.002	2						
28-Sep-22	4775.06	7.96	0.003	1	0.001	0.001	0.0001	0.008	0.013	
30-Sep-22	3882.23	8.08	0.003	2.3						
<b>Average</b>	<b>8435</b>	<b>8.01</b>	<b>0.003</b>	<b>5.15</b>	<b>0.002</b>	<b>0.004</b>	<b>0.0007</b>	<b>0.009</b>	<b>0.017</b>	
<b>Minimum</b>	<b>3882</b>	<b>7.80</b>	<b>0.002</b>	<b>0.67</b>	<b>0.001</b>	<b>0.001</b>	<b>0.0001</b>	<b>0.007</b>	<b>0.006</b>	
<b>Maximum</b>	<b>15164</b>	<b>8.16</b>	<b>0.015</b>	<b>53.00</b>	<b>0.005</b>	<b>0.012</b>	<b>0.0026</b>	<b>0.014</b>	<b>0.040</b>	

### Quarter 4

<b>October</b>	<b>No. Days Discharged</b>	<b>31</b>								
3-Oct-22	5086.1273	8.03	0.003	1.7						
5-Oct-22	9100.7766	8.09	0.006	1	0.002	0.001	0.0001	0.008	0.011	
7-Oct-22	12108.799	8.1	0.004	1.7						
11-Oct-22	9485.1287	7.98	0.002	1.7						
12-Oct-22	9679.2845	8.05	0.004	3	0.003	0.002	0.0001	0.008	0.016	
14-Oct-22	9874.7482	8.09	0.002	1.7						
17-Oct-22	9485.1287	8.09	0.002	1.7						
19-Oct-22	17481.732	7.91	0.002	1.3	0.002	0.002	0.0002	0.009	0.02	
21-Oct-22	12108.799	7.81	0.002	2.7						
24-Oct-22	9874.7482	7.84	0.003	1.7						
26-Oct-22	9874.7482	8.03	0.002	1.3	0.002	0.007	0.0005	0.009	0.025	
28-Oct-22	10468.901	8.11	0.004	1						
31-Oct-22	9679.2845	8.03	0.002	1.3						
<b>Average</b>	<b>10331</b>	<b>8.01</b>	<b>0.003</b>	<b>1.68</b>	<b>0.002</b>	<b>0.003</b>	<b>0.0002</b>	<b>0.009</b>	<b>0.018</b>	
<b>Minimum</b>	<b>5086</b>	<b>7.81</b>	<b>0.002</b>	<b>1.00</b>	<b>0.002</b>	<b>0.001</b>	<b>0.0001</b>	<b>0.008</b>	<b>0.011</b>	
<b>Maximum</b>	<b>17482</b>	<b>8.11</b>	<b>0.006</b>	<b>3.00</b>	<b>0.003</b>	<b>0.007</b>	<b>0.0005</b>	<b>0.009</b>	<b>0.025</b>	

## MISA Cover Letter Public Report- Section 35

(b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

### LPMW

Concentrations										
Collect Date	Flow Rate	Lab pH	Total Cyanide	Suspended Solids	Total Arsenic	Total Copper	Total Lead	Total Nickel	Total Zinc	
	m <sup>3</sup> /day	pH unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
<b>November</b>	<b>No. Days Discharged</b>	<b>30</b>								
2-Nov-22	9679.2845	8	0.002	1.3	0.002	0.002	0.0002	0.011	0.038	
4-Nov-22	9874.7482	7.9	0.002	1.7						
7-Nov-22	6225.1011	7.75	0.002	1.7						
9-Nov-22	4172.9599	7.89	0.002	2	0.002	0.002	0.0002	0.012	0.025	
10-Nov-22	6057.7285	8.07	0.002	2.7						
15-Nov-22	6393.9894	7.97	0.002	3.7						
16-Nov-22	5244.1002	7.99	0.002	1.7	0.001	0.002	0.0001	0.008	0.021	
18-Nov-22	4775.0634	8.05	0.004	1.3						
21-Nov-22	4622.007	7.8	0.004	1.3						
23-Nov-22	4775.0634	8.14	0.002	2	0.001	0.001	0.0001	0.01	0.02	
25-Nov-22	5564.8454	7.87	0.006	1.3						
28-Nov-22	4775.0634	7.95	0.004	1.3						
30-Nov-22	4622.007	7.78	0.004	1.7	0.002	0.025	0.0011	0.009	0.035	
<b>Average</b>	<b>5906</b>	<b>7.94</b>	<b>0.003</b>	<b>1.82</b>	<b>0.002</b>	<b>0.006</b>	<b>0.0003</b>	<b>0.010</b>	<b>0.028</b>	
<b>Minimum</b>	<b>4173</b>	<b>7.75</b>	<b>0.002</b>	<b>1.30</b>	<b>0.001</b>	<b>0.001</b>	<b>0.0001</b>	<b>0.008</b>	<b>0.020</b>	
<b>Maximum</b>	<b>9875</b>	<b>8.14</b>	<b>0.006</b>	<b>3.70</b>	<b>0.002</b>	<b>0.025</b>	<b>0.0011</b>	<b>0.012</b>	<b>0.038</b>	
<b>December</b>	<b>No. Days Discharged</b>	<b>31</b>								
2-Dec-22	4622.007	7.87	0.002	1.3						
5-Dec-22	5086.1273	7.79	0.004	1.7						
7-Dec-22	4622.007	7.92	0.002	1	0.001	0.002	0.0001	0.009	0.016	
9-Dec-22	4622.007	7.59	0.002	1						
12-Dec-22	4470.625	8	0.003	1.3						
14-Dec-22	4320.9362	7.9	0.004	1	0.001	0.002	0.0001	0.011	0.021	
16-Dec-22	4622.007	8.06	0.022	1						
19-Dec-22	1107.159	7.95	0.002	1						
21-Dec-22	4026.7163	8.01	0.002	10.7	0.001	0.002	0.0001	0.01	0.025	
22-Dec-22	4320.9362	7.94	0.002	1						
27-Dec-22	4470.625	8.02	0.002	1						
28-Dec-22	4622.007	7.98	0.002	1	0.001	0.002	0.0001	0.01	0.026	
30-Dec-22	4775.0634	7.66	0.005	2						
<b>Average</b>	<b>4284</b>	<b>7.90</b>	<b>0.004</b>	<b>1.92</b>	<b>0.001</b>	<b>0.002</b>	<b>0.0001</b>	<b>0.010</b>	<b>0.022</b>	
<b>Minimum</b>	<b>1107</b>	<b>7.59</b>	<b>0.002</b>	<b>1.00</b>	<b>0.001</b>	<b>0.002</b>	<b>0.0001</b>	<b>0.009</b>	<b>0.016</b>	
<b>Maximum</b>	<b>5086</b>	<b>8.06</b>	<b>0.022</b>	<b>10.70</b>	<b>0.001</b>	<b>0.002</b>	<b>0.0001</b>	<b>0.011</b>	<b>0.026</b>	

Notes: Less than MDL



## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### LPMW

Loadings							
Collect Date	Total Cyanide kg/day	Suspended Solids kg/day	Total Arsenic kg/day	Total Copper kg/day	Total Lead kg/day	Total Nickel kg/day	Total Zinc kg/day

#### Quarter 1

##### January

4-Jan-22	0.0468	43.2582					
5-Jan-22	0.0234	35.0742	0.0234	0.0351	0.0035	0.1520	0.6196
7-Jan-22	0.0242	39.9590					
10-Jan-22	0.0574	42.4928					
12-Jan-22	0.0213	45.8789	0.0213	0.0213	0.0043	0.1280	0.5868
14-Jan-22	0.0213	78.2075					
17-Jan-22	0.0314	13.6096					
19-Jan-22	0.0419	31.4067	0.0314	0.0209	0.0042	0.1570	0.8270
21-Jan-22	0.2014	47.3361					
24-Jan-22	0.0201	33.2360					
26-Jan-22	0.0197	29.6243	0.0296	0.0197	0.0039	0.1679	0.8887
28-Jan-22	0.0494	32.5867					
31-Jan-22	0.0290	35.8134					
<b>Average Daily Load</b>	<b>0.0452</b>	<b>39.1141</b>	<b>0.0264</b>	<b>0.0243</b>	<b>0.0040</b>	<b>0.1512</b>	<b>0.7306</b>
<b>Monthly Load (kg/mo.)</b>	<b>1.4009</b>	<b>1212.5370</b>	<b>0.8196</b>	<b>0.7525</b>	<b>0.1233</b>	<b>4.6882</b>	<b>22.6473</b>

##### February

2-Feb-22	0.0194	38.7172	0.0290	0.0194	0.0039	0.1645	0.7937
4-Feb-22	0.0569	79.0111					
7-Feb-22	0.0197	52.3362					
9-Feb-22	0.0285	37.9405	0.0285	0.0095	0.0038	0.1423	0.7588
11-Feb-22	0.0194	48.3965					
14-Feb-22	0.0190	31.3009					
16-Feb-22	0.0186	30.6646	0.0279	0.0186	0.0037	0.1487	0.8735
18-Feb-22	0.0034	5.1573					
22-Feb-22	0.0003	0.4770					
23-Feb-22	0.0092	15.2526	0.0092	0.0139	0.0018	0.0647	0.3698
25-Feb-22	0.0910	39.1334					
28-Feb-22	0.0186	39.9569					
<b>Average Daily Load</b>	<b>0.0253</b>	<b>34.8620</b>	<b>0.0237</b>	<b>0.0153</b>	<b>0.0033</b>	<b>0.1301</b>	<b>0.6989</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.7093</b>	<b>976.1367</b>	<b>0.6623</b>	<b>0.4291</b>	<b>0.0926</b>	<b>3.6415</b>	<b>19.5703</b>

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### LPMW

Loadings							
Collect Date	Total Cyanide kg/day	Suspended Solids kg/day	Total Arsenic kg/day	Total Copper kg/day	Total Lead kg/day	Total Nickel kg/day	Total Zinc kg/day
<b>March</b>							
2-Mar-22	0.0190	21.8158	0.0285	0.0095	0.0038	0.1612	0.9295
4-Mar-22	0.0186	30.6646					
7-Mar-22	0.0705	37.2646					
9-Mar-22	0.0030	4.9671	0.0045	0.0030	0.0003	0.0226	0.1249
11-Mar-22	0.0108	3.6205					
14-Mar-22	0.0194	35.8133					
16-Mar-22	0.0190	6.3550	0.0285	0.2466	0.0028	0.1802	0.8821
18-Mar-22	0.0221	7.4199					
21-Mar-22	0.0213	28.8077					
23-Mar-22	0.0201	10.0715	0.0302	0.0201	0.0030	0.1511	0.8863
25-Mar-22	0.0125	20.5428					
28-Mar-22	0.0096	3.1993					
30-Mar-22	0.0190	6.3550	0.0190	0.0095	0.0019	0.1328	0.7778
<b>Average Daily Load</b>	<b>0.0204</b>	<b>16.6844</b>	<b>0.0221</b>	<b>0.0577</b>	<b>0.0024</b>	<b>0.1296</b>	<b>0.7201</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.6315</b>	<b>517.2163</b>	<b>0.6858</b>	<b>1.7902</b>	<b>0.0735</b>	<b>4.0170</b>	<b>22.3241</b>

### 0-Jan-00

### Quarter 2

### April

1-Apr-22	0.0332	7.4199					
4-Apr-22	0.0314	10.4689					
6-Apr-22	0.0533	50.1467	0.0320	0.0640	0.0032	0.1600	
8-Apr-22	0.0246	24.6386					
11-Apr-22	0.0942	17.7971					
13-Apr-22	0.1015	131.9632	0.0226	0.0226	0.0034	0.1579	0.8459
14-Apr-22	0.1107	1063.1539					
19-Apr-22	0.0213	35.2094					
20-Apr-22	0.0205	13.3504	0.0205	0.0205	0.0021	0.1335	0.6162
22-Apr-22	0.1838	11.4845					
25-Apr-22	0.0382	16.5672					
27-Apr-22	0.1190	15.4693	0.0238	0.0238	0.0036	0.1547	0.6902
29-Apr-22	0.0314	149.7053					
<b>Average Daily Load</b>	<b>0.0664</b>	<b>119.0288</b>	<b>0.0247</b>	<b>0.0327</b>	<b>0.0031</b>	<b>0.1515</b>	<b>0.7174</b>
<b>Monthly Load (kg/mo.)</b>	<b>1.9924</b>	<b>3570.8645</b>	<b>0.7418</b>	<b>0.9818</b>	<b>0.0916</b>	<b>4.5461</b>	<b>21.5226</b>

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### LPMW

Loadings							
Collect Date	Total Cyanide kg/day	Suspended Solids kg/day	Total Arsenic kg/day	Total Copper kg/day	Total Lead kg/day	Total Nickel kg/day	Total Zinc kg/day
<b>May</b>							
2-May-22	0.2106	12.3432					
4-May-22	0.0448	8.3122	0.0128	0.0256	0.0013	0.0895	0.2494
6-May-22	0.0118	17.6757					
9-May-22	0.0344	9.7369					
11-May-22	0.0445	9.4602	0.0056	0.0111	0.0011	0.0612	0.0556
13-May-22	0.0131	11.1594					
16-May-22	0.0115	7.4459					
18-May-22	0.0125	6.2251	0.0062	0.0062	0.0006	0.0685	0.0436
20-May-22	0.0121	6.0577					
24-May-22	0.0121	4.0587					
25-May-22	0.0115	3.8375	0.0057	0.0057	0.0006	0.0573	0.0401
30-May-22	0.0394	13.1288					
<b>Average Daily Load</b>	<b>0.0382</b>	<b>9.1201</b>	<b>0.0076</b>	<b>0.0122</b>	<b>0.0009</b>	<b>0.0691</b>	<b>0.0972</b>
<b>Monthly Load (kg/mo.)</b>	<b>1.1834</b>	<b>282.7233</b>	<b>0.2349</b>	<b>0.3771</b>	<b>0.0278</b>	<b>2.1427</b>	<b>3.0123</b>

<b>June</b>							
1-Jun-22	0.0118	10.0162	0.0059	0.0059	0.0006	0.0589	0.0295
3-Jun-22	0.0115	5.7276					
6-Jun-22	0.0118	13.5513					
8-Jun-22	0.0128	10.8698	0.0064	0.0128	0.0006	0.0639	0.0575
10-Jun-22	0.0553	11.7464					
15-Jun-22	0.0172	5.7276	0.0057	0.0229	0.0017	0.0573	0.0515
17-Jun-22	0.0118	7.6595					
20-Jun-22	0.0286	11.4552					
22-Jun-22	0.0157	5.2441	0.0052	0.0052	0.0005	0.0420	0.0262
24-Jun-22	0.0162	5.4037					
27-Jun-22	0.0277	2.3179					
29-Jun-22	0.0118	3.9476	0.0059	0.0059	0.0006	0.0412	0.0236
30-Jun-22	0.0115	3.8375					
<b>Average Daily Load</b>	<b>0.0187</b>	<b>7.5003</b>	<b>0.0058</b>	<b>0.0105</b>	<b>0.0008</b>	<b>0.0527</b>	<b>0.0377</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.5620</b>	<b>225.0097</b>	<b>0.1749</b>	<b>0.3164</b>	<b>0.0244</b>	<b>1.5800</b>	<b>1.1301</b>

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### LPMW

Loadings							
Collect Date	Total Cyanide kg/day	Suspended Solids kg/day	Total Arsenic kg/day	Total Copper kg/day	Total Lead kg/day	Total Nickel kg/day	Total Zinc kg/day

#### Quarter 3

##### July

5-Jul-22	0.0111	3.7284					
6-Jul-22	0.1415	4.5133	0.0067	0.0135	0.0007	0.0606	0.0606
8-Jul-22	0.0172	3.8375					
11-Jul-22	0.0145	4.8647					
13-Jul-22	0.0354	7.6595	0.0118	0.0118	0.0118	0.0471	0.0295
15-Jul-22	0.0118	13.5513					
18-Jul-22	0.0111	5.5649					
20-Jul-22	0.0223	11.1297	0.0056	0.0223	0.0006	0.0501	0.0278
22-Jul-22	0.0142	7.0844					
25-Jul-22	0.0263	24.2882					
27-Jul-22	0.0115	5.7276	0.0115	0.0057	0.0006	0.0401	0.0286
29-Jul-22	0.0295	3.9476					
<b>Average Daily Load</b>	<b>0.0288</b>	<b>7.9914</b>	<b>0.0089</b>	<b>0.0133</b>	<b>0.0034</b>	<b>0.0495</b>	<b>0.0366</b>
<b>Monthly Load (kg/mo.</b>	<b>0.8942</b>	<b>247.7340</b>	<b>0.2754</b>	<b>0.4126</b>	<b>0.1053</b>	<b>1.5340</b>	<b>1.1357</b>

#### Quarter 3

##### August

2-Aug-22	0.0239	5.3466					
3-Aug-22	0.0128	4.2840	0.0128	0.0064	0.0006	0.0448	0.0256
5-Aug-22	0.0121	4.0587					
8-Aug-22	0.0172	7.4459					
10-Aug-22	0.3938	6.0577	0.0061	0.0061	0.0006	0.0545	0.0363
12-Aug-22	0.0135	8.7571					
15-Aug-22	0.0395	16.7871					
17-Aug-22	0.0862	20.9428	0.0246	0.0123	0.0012	0.0862	0.0616
19-Aug-22	0.0269	60.6263					
22-Aug-22	0.0482	16.0776					
24-Aug-22	0.0273	9.1008	0.0182	0.0091	0.0009	0.0546	0.0364
26-Aug-22	0.0149	7.4384					
29-Aug-22	0.0263	6.5644					
31-Aug-22	0.0435	9.7082	0.0290	0.0290	0.0014	0.1014	0.1014
<b>Average Daily Load</b>	<b>0.0561</b>	<b>13.0854</b>	<b>0.0181</b>	<b>0.0126</b>	<b>0.0010</b>	<b>0.0683</b>	<b>0.0523</b>
<b>Monthly Load (kg/mo.</b>	<b>1.7406</b>	<b>405.6477</b>	<b>0.5621</b>	<b>0.3897</b>	<b>0.0300</b>	<b>2.1176</b>	<b>1.6204</b>

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### LPMW

Loadings							
Collect Date	Total Cyanide kg/day	Suspended Solids kg/day	Total Arsenic kg/day	Total Copper kg/day	Total Lead kg/day	Total Nickel kg/day	Total Zinc kg/day
<b>September</b>							
2-Sep-22	0.0314	13.6096					
6-Sep-22	0.0178	11.5838					
7-Sep-22	0.0262	5.8436	0.0174	0.0174	0.0009	0.0611	0.0523
9-Sep-22	0.1010	6.7363					
12-Sep-22	0.0115	3.8375					
14-Sep-22	0.0099	4.9298	0.0049	0.0099	0.0005	0.0345	0.0345
16-Sep-22	0.0108	5.4037					
19-Sep-22	0.0428	9.5593					
21-Sep-22	0.0448	791.7076	0.0747	0.1793	0.0388	0.2091	0.5975
23-Sep-22	0.0303	15.1636					
26-Sep-22	0.0115	11.4552					
28-Sep-22	0.0143	4.7751	0.0048	0.0048	0.0005	0.0382	0.0621
30-Sep-22	0.0116	8.9291					
<b>Average Daily Load</b>	<b>0.0280</b>	<b>68.7334</b>	<b>0.0255</b>	<b>0.0528</b>	<b>0.0102</b>	<b>0.0857</b>	<b>0.1866</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.8398</b>	<b>2062.0016</b>	<b>0.7638</b>	<b>1.5850</b>	<b>0.3051</b>	<b>2.5717</b>	<b>5.5982</b>

### **October**

3-Oct-22	0.0153	8.6464					
5-Oct-22	0.0546	9.1008	0.0182	0.0091	0.0009	0.0728	0.1001
7-Oct-22	0.0484	20.5850					
11-Oct-22	0.0190	16.1247					
12-Oct-22	0.0387	29.0379	0.0290	0.0194	0.0010	0.0774	0.1549
14-Oct-22	0.0197	16.7871					
17-Oct-22	0.0190	16.1247					
19-Oct-22	0.0350	22.7263	0.0350	0.0350	0.0035	0.1573	0.3496
21-Oct-22	0.0242	32.6938					
24-Oct-22	0.0296	16.7871					
26-Oct-22	0.0197	12.8372	0.0197	0.0691	0.0049	0.0889	0.2469
28-Oct-22	0.0419	10.4689					
31-Oct-22	0.0194	12.5831					
<b>Average Daily Load</b>	<b>0.0296</b>	<b>17.2694</b>	<b>0.0255</b>	<b>0.0331</b>	<b>0.0026</b>	<b>0.0991</b>	<b>0.2129</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.9169</b>	<b>535.3527</b>	<b>0.7901</b>	<b>1.0272</b>	<b>0.0799</b>	<b>3.0725</b>	<b>6.5990</b>

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### LPMW

Loadings							
Collect Date	Total Cyanide kg/day	Suspended Solids kg/day	Total Arsenic kg/day	Total Copper kg/day	Total Lead kg/day	Total Nickel kg/day	Total Zinc kg/day
<b>November</b>							
2-Nov-22	0.02	12.58	0.02	0.02	0.00	0.11	0.37
4-Nov-22	0.02	16.79					
7-Nov-22	0.01	10.58					
9-Nov-22	0.01	8.35	0.01	0.01	0.00	0.05	0.10
10-Nov-22	0.01	16.36					
15-Nov-22	0.01	23.66					
16-Nov-22	0.01	8.91	0.01	0.01	0.00	0.04	0.11
18-Nov-22	0.02	6.21					
21-Nov-22	0.02	6.01					
23-Nov-22	0.01	9.55	0.00	0.00	0.00	0.05	0.10
25-Nov-22	0.03	7.23					
28-Nov-22	0.02	6.21					
30-Nov-22	0.02	7.86	0.01	0.12	0.01	0.04	0.16
<b>Average Daily Load</b>	<b>0.0164</b>	<b>10.7918</b>	<b>0.0094</b>	<b>0.0317</b>	<b>0.0018</b>	<b>0.0576</b>	<b>0.1679</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.4925</b>	<b>323.7529</b>	<b>0.2818</b>	<b>0.9511</b>	<b>0.0531</b>	<b>1.7271</b>	<b>5.0372</b>
<b>December</b>							
2-Dec-22	0.01	6.01					
5-Dec-22	0.02	8.65					
7-Dec-22	0.01	4.62	0.00	0.01	0.00	0.04	0.07
9-Dec-22	0.01	4.62					
12-Dec-22	0.01	5.81					
14-Dec-22	0.02	4.32	0.00	0.01	0.00	0.05	0.09
16-Dec-22	0.10	4.62					
19-Dec-22	0.00	1.11					
21-Dec-22	0.01	43.09	0.00	0.01	0.00	0.04	0.10
22-Dec-22	0.01	4.32					
27-Dec-22	0.01	4.47					
28-Dec-22	0.01	4.62	0.00	0.01	0.00	0.05	0.12
30-Dec-22	0.02	9.55					
<b>Average Daily Load</b>	<b>0.0186</b>	<b>8.1393</b>	<b>0.0044</b>	<b>0.0088</b>	<b>0.0004</b>	<b>0.0439</b>	<b>0.0964</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.5757</b>	<b>252.3174</b>	<b>0.1363</b>	<b>0.2727</b>	<b>0.0136</b>	<b>1.3610</b>	<b>2.9879</b>
<b>Total Annual Load kg/year</b>	<b>11.94</b>	<b>10611.29</b>	<b>6.13</b>	<b>9.29</b>	<b>1.02</b>	<b>33.00</b>	<b>113.19</b>

## MISA Cover Letter Public Report Section 35

### (c) Summary of Plant Retention Times calculated under Sections 15, 16, 17

#### LPMW

Daily Flowrates (dates when samples were collected for weekly and thrice weekly tests) for 90 day period prior to calculation of retention time (July, August, September)

Date of Calculation:	2020/10/01
90 Day Period Begins:	2020/09/01

Flowrates for 90 day period prior to calculation of retention time:

Date 2021	Flowrate (m3/day)	Date 2021	Flowrate (m3/day)
1-Jul-21	10,871	15-Aug-21	519
2-Jul-21	7,798	16-Aug-21	111
3-Jul-21	6,564	17-Aug-21	3,882
4-Jul-21	6,058	18-Aug-21	7,798
5-Jul-21	5,892	19-Aug-21	9,485
6-Jul-21	10,871	20-Aug-21	9,875
7-Jul-21	7,438	21-Aug-21	9,875
8-Jul-21	8,163	22-Aug-21	9,875
9-Jul-21	9,679	23-Aug-21	9,875
10-Jul-21	9,875	24-Aug-21	9,875
11-Jul-21	7,261	25-Aug-21	9,875
12-Jul-21	6,225	26-Aug-21	9,875
13-Jul-21	8,534	27-Aug-21	9,875
14-Jul-21	8,348	28-Aug-21	8,163
15-Jul-21	8,911	29-Aug-21	8,163
16-Jul-21	10,270	30-Aug-21	10,072
17-Jul-21	9,679	31-Aug-21	9,292
18-Jul-21	7,261	1-Sep-21	6,910
19-Jul-21	6,225	2-Sep-21	6,736
20-Jul-21	7,798	3-Sep-21	6,736
21-Jul-21	9,485	4-Sep-21	7,261
22-Jul-21	9,679	5-Sep-21	8,348
23-Jul-21	10,270	6-Sep-21	7,798
24-Jul-21	9,875	7-Sep-21	6,910
25-Jul-21	10,469	8-Sep-21	10,270
26-Jul-21	10,670	9-Sep-21	11,899
27-Jul-21	9,875	10-Sep-21	10,469
28-Jul-21	10,072	11-Sep-21	10,072
29-Jul-21	9,679	12-Sep-21	11,899
30-Jul-21	8,348	13-Sep-21	10,469
31-Jul-21	6,225	14-Sep-21	10,072
1-Aug-21	6,225	15-Sep-21	10,871
2-Aug-21	5,728	16-Sep-21	10,072
3-Aug-21	6,910	17-Sep-21	9,875
4-Aug-21	7,980	18-Sep-21	10,072
5-Aug-21	9,101	19-Sep-21	9,875
6-Aug-21	9,292	20-Sep-21	9,679
7-Aug-21	15,164	21-Sep-21	9,679
8-Aug-21	8,534	22-Sep-21	11,899
9-Aug-21	4,471	23-Sep-21	10,270
10-Aug-21	2,294	24-Sep-21	11,279
11-Aug-21	7,438	25-Sep-21	10,469
12-Aug-21	4,027	26-Sep-21	10,270
13-Aug-21	1,611	27-Sep-21	10,072
14-Aug-21	1,107	28-Sep-21	9,875

30 Maximum flows during 90 Day Period:

Date 2020	Flowrate (m3/day)
7-Aug-21	15,164
9-Sep-21	11,899
12-Sep-21	11,899
22-Sep-21	11,899
24-Sep-21	11,279
1-Jul-21	10,871
6-Jul-21	10,871
15-Sep-21	10,871
26-Jul-21	10,670
25-Jul-21	10,469
10-Sep-21	10,469
13-Sep-21	10,469
25-Sep-21	10,469
16-Jul-21	10,270
23-Jul-21	10,270
8-Sep-21	10,270
23-Sep-21	10,270
26-Sep-21	10,270
28-Jul-21	10,072
30-Aug-21	10,072
11-Sep-21	10,072
14-Sep-21	10,072
16-Sep-21	10,072
18-Sep-21	10,072
27-Sep-21	10,072
10-Jul-21	9,875
27-Jul-21	9,875
20-Aug-21	9,875
21-Aug-21	9,875
22-Aug-21	9,875

Average Flowrate	10,617	m3/day
<i>(of 30 maximum flows in previous 90 days)</i>		
Volume of pond	608,516	m3
<b>Calculated Retention Time</b>	<b>57</b>	<b>days</b>

**LPMW**

**MISA Public Report Section 35**

(d) Summary of Process Effluent- Weekly and Thrice Weekly Monitoring, pH measurement, Lethality Monitoring and Chronic Toxicity Testing under Sections 22, 23, 25, 26, 27, 28

Summary of results from monitoring performed under sections 22, 23, 25

All samples were collected as per requirements of Sections 22, 23 & 25 of the regulation during discharge periods.

Summary of results from monitoring performed under sections 26, 27, & 28

All samples were collected as per requirements of Sections 26, 27 & 28 of the regulation during discharge periods.

**Results**

Date	Rainbow Trout	Daphnia Magna	Ceriodaphnia Dubia		Fathead Minnow
	% mortality @ 100% Conc.		Reproduction	Survival	Growth
5-Jan-22	0%	0%	>100	>100	>100
6-Apr-22	0%	0%			
6-Jul-22	0%	0%	5.42%	>100	>100
5-Oct-22	0%	0%			

**LPMW**

**MISA Public Report Section 35**

(e) Summary of calculations performed under Sections 31(6), 32(1) and 32(4)

*All flow monitoring results are recorded by a calibrated transducer and recorder.*

*Flow monitoring calibrations are completed and certified annually.*

(f) Summary of concentrations or other results that exceeded a limit under Sections 18 or 19

*There were no exceedences of the limits prescribed in Schedule 1 of the regulation.*

(g)(h) Summary of incidents

*There were no incidents in which the effluent discharged from the facility other than through the sampling point established.*



**Pamour Mine  
Pamour Mine (PM122)  
Final Discharge**



**Table 1 - ECA 3827-C**

**A. Summary of Effluence**

**PM122**

**Loadings**

Collect Date	Mercury - Total	Molybdenum - Dissolved	Molybdenum - Total	Nickel - Dissolved	Nickel - Total	Nitrate	Nitrite as Nitrogen	Phosphorus - Total	Potassium - Dissolved	Potassium - Total	Selenium - Dissolved	Selenium - Total	Silver - Dissolved	Silver - Total	Sodium - Dissolved	Sodium - Total	Sulphate	Suspended Solids Total	Thallium - Dissolved	Thallium - Total	Total Dissolved Solids	Total Organic Carbon	Un-ionized Ammonia	Uranium - Dissolved	Uranium - Total	Vanadium - Dissolved	Vanadium - Total	Zinc - Dissolved	Zinc - Total
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**Quarter 1**

**January**

Average Daily Load	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Monthly Load (kg/mo.)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

**February**

Average Daily Load	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Monthly Load (kg/mo.)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**March**

Average Daily Load	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Monthly Load (kg/mo.)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**Quarter 2**

**April**

6-Apr-22	0.0000	0.0035	0.0035	0.0345	0.0362	0.0863	0.0863	0.3054	5.0042	4.8316	0.0009	0.0009	0.0002	0.0002	7.2474	7.0748	177.7337	5.1767	0.0002	0.0002	543.5546	11.9064	0.0035	0.0017	0.0017	0.0017	0.0017	0.0035	0.0052
8-Apr-22																		2.5884											
11-Apr-22																		2.2432											
13-Apr-22	0.0002		0.0035		0.0276			0.1380		5.1767		0.0009		0.0002		1.7256				0.0002			0.0086		0.0017		0.0017		0.0069
14-Apr-22																													
20-Apr-22	0.0001		0.0013		0.0064			0.0645		2.9655		0.0006		0.0001		3.2234				0.0001			0.0026		0.0013		0.0013		0.0039
22-Apr-22																													
25-Apr-22																													
27-Apr-22	0.0000	0.0039	0.0039	0.0116	0.0116	0.1939	0.1939	0.0931	4.6531	4.6531	0.0019	0.0019	0.0004	0.0004	5.4287	5.8164	139.9817	5.0409	0.0004	0.0004	465.3132	12.0206	0.0078	0.0039	0.0039	0.0039	0.0039	0.0078	
29-Apr-22																													
Average Daily Load	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Monthly Load (kg/mo.)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**May**

2-May-22																													
4-May-22	0.0001	0.0072	0.0072	0.0215	0.0215	0.3591	0.3591	1.7378	10.0535	10.0535	0.0036	0.0036	0.0007	0.0007	6.4630	6.4630	162.2920	16.5164	0.0007	0.0007	646.2954		0.0144	0.0072	0.0072	0.0072	0.0072	0.0144	
6-May-22																													
9-May-22																													
11-May-22	0.0002		0.0061		0.0107			0.0764		3.6668		0.0008		0.0002		3.3612				0.0002			0.0031		0.0015		0.0015		0.0260
13-May-22																													
16-May-22																													
18-May-22	0.0000	0.0003	0.0003	0.0019	0.0022			0.0137	0.7123	0.6849	0.0001	0.0001	0.0000	0.0000	0.6575	0.6301		0.5479	0.0000	0.0000			0.0005	0.0003	0.0003	0.0003	0.0003	0.0099	0.0699
20-May-22																													
24-May-22																													
25-May-22	0.0000	0.0002	0.0003	0.0010	0.0010			0.0085	0.3726	0.3557	0.0001	0.0001	0.0000	0.0000	0.3726	0.3557		0.2202	0.0000	0.0000			0.0003	0.0002	0.0002	0.0002	0.0002	0.0020	0.0030
27-May-22																													
30-May-22																													
Average Daily Load	0.0001	0.0025	0.0035	0.0082	0.0089	0.3591	0.3591	0.4591	3.7128	3.6902	0.0013	0.0011	0.0003	0.0002	2.4977	2.7025	162.2920	4.0124	0.0003	0.0002	646.2954	0.0000	0.0046	0.0025	0.0023	0.0025	0.0023	0.0064	0.0283
Monthly Load (kg/mo.)	0.0021	0.0788	0.1078	0.2529	0.2747	11.1306	11.1306	14.2319	115.0970	114.3968	0.0394	0.0355	0.0079	0.0071	77.4286	83.7774	5031.0506	124.3842	0.0079	0.0071	20035.1574	0.0000	0.1419	0.0788	0.0709	0.0788	0.0709	0.1971	0.8776







**Table 1 - ECA 3827-C**

**A. Summary of Effluce**

**PM122**

Loadings																													
Collect Date	Mercury - Total	Molybdenum - Dissolved	Molybdenum - Total	Nickel - Dissolved	Nickel - Total	Nitrate	Nitrite as Nitrogen	Phosphorus - Total	Potassium - Dissolved	Potassium - Total	Selenium - Dissolved	Selenium - Total	Silver - Dissolved	Silver - Total	Sodium - Dissolved	Sodium - Total	Sulphate	Suspended Solids Total	Thallium - Dissolved	Thallium - Total	Total Dissolved Solids	Total Organic Carbon	Un-Ionized Ammonia	Uranium - Dissolved	Uranium - Total	Vanadium - Dissolved	Vanadium - Total	Zinc - Dissolved	Zinc - Total
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
<b>October</b>																													
5-Oct-22	0.0001	0.0133	0.0133	0.0399	0.0399	0.6643	0.6643	0.4384	9.2998	7.9713	0.0066	0.0066	0.0013	0.0013	19.9282	18.5997	801.1138	13.2855	0.0013	0.0013	2590.6664	57.1275	0.0266	0.0133	0.0133	0.0133	0.0133	0.0266	0.0399
6-Oct-22																		17.5220											
7-Oct-22																		4.4723											
11-Oct-22	0.0001	0.0015	0.0015	0.0073	0.0073	0.0735	0.0735	0.0118	2.0569	1.9099	0.0007	0.0007	0.0001	0.0001	3.0853	2.7915	95.2033	1.9099	0.0001	0.0001	323.2211	9.5497	0.0029	0.0015	0.0015	0.0015	0.0015	0.0059	0.0073
14-Oct-22																		2.5312											
17-Oct-22																		0.5025											
19-Oct-22	0.0001	0.0012	0.0012	0.0058	0.0058	0.0579	0.0579	0.0220	1.9698	1.8540	0.0006	0.0006	0.0001	0.0001	2.6651	2.5492	72.4199	3.1285	0.0001	0.0001	202.7758	7.5317	0.0023	0.0012	0.0012	0.0012	0.0012	0.0197	0.0232
21-Oct-22																		4.3361											
24-Oct-22																		1.3087											
25-Oct-22	0.0000	0.0099	0.0055	0.0066	0.0066	0.1216	0.0553	0.0254	1.6577	1.6577	0.0006	0.0006	0.0001	0.0002	2.8734	2.7629	71.2832	1.4367	0.0001	0.0001	198.9298	6.7415	0.0022	0.0011	0.0011	0.0011	0.0011	0.0088	0.0044
28-Oct-22																		1.8490											
31-Oct-22																		1.1229											
<b>Average Daily Load</b>	<b>0.0001</b>	<b>0.0065</b>	<b>0.0054</b>	<b>0.0149</b>	<b>0.0149</b>	<b>0.2293</b>	<b>0.2127</b>	<b>0.1244</b>	<b>3.7461</b>	<b>3.3482</b>	<b>0.0021</b>	<b>0.0021</b>	<b>0.0004</b>	<b>0.0005</b>	<b>7.1380</b>	<b>6.6758</b>	<b>260.0050</b>	<b>4.4504</b>	<b>0.0004</b>	<b>0.0004</b>	<b>828.8983</b>	<b>20.2376</b>	<b>0.0085</b>	<b>0.0043</b>	<b>0.0043</b>	<b>0.0043</b>	<b>0.0043</b>	<b>0.0152</b>	<b>0.0187</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.0029</b>	<b>0.1875</b>	<b>0.1554</b>	<b>0.4323</b>	<b>0.4323</b>	<b>6.6500</b>	<b>6.1692</b>	<b>3.6077</b>	<b>108.6359</b>	<b>97.0987</b>	<b>0.0617</b>	<b>0.0617</b>	<b>0.0123</b>	<b>0.0131</b>	<b>207.0018</b>	<b>193.5982</b>	<b>7540.1462</b>	<b>129.0628</b>	<b>0.0123</b>	<b>0.0123</b>	<b>24038.0498</b>	<b>586.8905</b>	<b>0.2468</b>	<b>0.1234</b>	<b>0.1234</b>	<b>0.1234</b>	<b>0.1234</b>	<b>0.4422</b>	<b>0.5423</b>
<b>November</b>																													
2-Nov-22	0.0000	0.0005	0.0005	0.0030	0.0030	0.0251	0.0251	0.0025	0.8040	0.7538	0.0003	0.0003	0.0001	0.0001	1.1558	1.1558	33.6692	1.5076	0.0001	0.0001	97.9923	3.0151	0.0010	0.0005	0.0005	0.0005	0.0005	0.0065	0.0146
4-Nov-22																		0.4916											
7-Nov-22																		2.7515											
9-Nov-22	0.0002	0.0033	0.0017	0.0100	0.0100	0.0831	0.0831	0.0216	2.8264	2.4939	0.0003	0.0003	0.0002	0.0002	3.6577	3.3252	101.0854	2.1614	0.0002	0.0002	307.5790	8.9780	0.0033	0.0017	0.0017	0.0017	0.0017	0.0067	0.0116
10-Nov-22																		2.4976											
15-Nov-22																		25.9222											
16-Nov-22	0.0004	0.0041	0.0041	0.0204	0.0204	0.2045	0.2045	0.2454	6.5436	6.9526	0.0020	0.0020	0.0004	0.0004	7.7705	7.7705	237.6144	9.4064	0.0004	0.0004	613.4622	28.2193	0.0082	0.0041	0.0041	0.0041	0.0041	0.0164	0.0491
18-Nov-22																		3.2030											
21-Nov-22																		3.9260											
23-Nov-22	0.0001	0.0010	0.0021	0.0062	0.0052	0.0518	0.0518	0.0953	2.0720	1.9684	0.0005	0.0005	0.0001	0.0012	2.0720	1.8648	61.3318	1.7612	0.0001	0.0001	176.1217	7.9773	0.0021	0.0010	0.0010	0.0010	0.0010	0.0062	0.0104
25-Nov-22																		1.8381											
28-Nov-22																		0.9370											
30-Nov-22	0.0001	0.0008	0.0008	0.0046	0.0046	0.0385	0.0385	0.0478	1.4634	1.3094	0.0004	0.0004	0.0001	0.0001	1.6175	1.5405	47.5232	1.0013	0.0001	0.0001	127.0880	6.3929	0.0015	0.0008	0.0008	0.0008	0.0008	0.0046	0.0077
<b>Average Daily Load</b>	<b>0.0002</b>	<b>0.0019</b>	<b>0.0018</b>	<b>0.0089</b>	<b>0.0086</b>	<b>0.0806</b>	<b>0.0806</b>	<b>0.0825</b>	<b>2.7419</b>	<b>2.6956</b>	<b>0.0007</b>	<b>0.0007</b>	<b>0.0002</b>	<b>0.0004</b>	<b>3.2547</b>	<b>3.1314</b>	<b>96.2448</b>	<b>4.4158</b>	<b>0.0002</b>	<b>0.0002</b>	<b>264.4487</b>	<b>10.9165</b>	<b>0.0032</b>	<b>0.0016</b>	<b>0.0016</b>	<b>0.0016</b>	<b>0.0016</b>	<b>0.0081</b>	<b>0.0187</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.0046</b>	<b>0.0583</b>	<b>0.0546</b>	<b>0.2657</b>	<b>0.2594</b>	<b>2.4183</b>	<b>2.4183</b>	<b>2.4755</b>	<b>82.2570</b>	<b>80.8683</b>	<b>0.0212</b>	<b>0.0212</b>	<b>0.0051</b>	<b>0.0120</b>	<b>97.6412</b>	<b>93.9407</b>	<b>2887.3437</b>	<b>132.4732</b>	<b>0.0048</b>	<b>0.0048</b>	<b>7933.4595</b>	<b>327.4955</b>	<b>0.0967</b>	<b>0.0484</b>	<b>0.0484</b>	<b>0.0484</b>	<b>0.0484</b>	<b>0.2423</b>	<b>0.5601</b>
<b>December</b>																													
2-Dec-22																		1.8550											
5-Dec-22																		1.1448											
7-Dec-22	0.0000	0.0005	0.0005	0.0035	0.0030	0.0251	0.0251	0.0276	1.0553	1.0050	0.0003	0.0003	0.0001	0.0001	1.0553	1.0553	31.9103	0.5025	0.0001	0.0001	105.5302	3.8192	0.0010	0.0005	0.0005	0.0005	0.0005	0.0025	0.0070
9-Dec-22																		0.5558											
12-Dec-22																		0.7440											
14-Dec-22	0.0000	0.0002	0.0002	0.0022	0.0022	0.0122	0.0122	0.0219	0.5104	0.4861	0.0001	0.0001	0.0000	0.0000	0.5347	0.5347	16.6232	0.3159	0.0000	0.0000	47.3907	1.9928	0.0005	0.0002	0.0002	0.0002	0.0002	0.0015	0.0017
16-Dec-22																		1.9212											
29-Dec-22	0.0004	0.0036	0.0036	0.0398	0.0398	0.1810	0.1810	0.2281	6.5175	6.5175	0.0018	0.0018	0.0004	0.0004	7.2416	6.8796	288.5796	7.2416	0.0004	0.0004	905.2058	26.0699	0.0072	0.0036	0.0036	0.0036	0.0036	0.0290	0.0398
30-Dec-22																		4.9865											
<b>Average Daily Load</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Monthly Load (kg/mo.)</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Total Annual Load kg/year</b>	<b>0.0096</b>	<b>0.3260</b>	<b>0.3199</b>	<b>0.9549</b>	<b>0.9709</b>	<b>20.2360</b>	<b>19.7552</b>	<b>20.3500</b>	<b>306.3694</b>	<b>292.7063</b>	<b>0.1234</b>	<b>0.1194</b>	<b>0.0257</b>	<b>0.0323</b>	<b>382.9153</b>	<b>372.1838</b>	<b>15505.3718</b>	<b>464.0920</b>	<b>0.0251</b>	<b>0.0243</b>	<b>52136.3417</b>	<b>918.8320</b>							

**Table 1 - ECA 3827-CCJHRD Public Report- Section 3, Schedule F**

**B. Summary of Effluent Concentrations**

**PM122**

Concentrations																										
	Flow Rate	Field pH	Lab pH	Field Temp	Field Electrical Conductivity	Lab Electrical Conductivity	Acidity	Alkalinity	Total Hardness	Turbidity	Aluminium - Dissolved	Aluminium - Total	Ammonia as N	Arsenic - Dissolved	Arsenic - Total	Beryllium - Dissolved	Beryllium - Total	Boron - Dissolved	Boron - Total	Cadmium - Dissolved	Cadmium - Total	Calcium - Dissolved	Calcium - Total	Chloride	Chromium - Dissolved	Chromium - Total
	m <sup>3</sup> /day	pH unit	pH unit	Deg C	(umhos/cm)	(umhos/cm)	mg/L CaCO3	CaCO3 (mg/L)	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
<b>Quarter 1</b>																										
<b>January</b>	No. Days Discharged	0																								
Average	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000
Minimum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000
Maximum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000
<b>February</b>																										
<b>February</b>	No. Days Discharged	0																								
Average	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000
Minimum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000
Maximum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000
<b>March</b>																										
<b>March</b>	No. Days Discharged	0																								
Average	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000
Minimum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000
Maximum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000
<b>Quarter 2</b>																										
<b>April</b>	No. Days Discharged	25																								
	6-Apr-22	1725.57	7.43	7.82	1.1	470	489	7	173	223	0.001	0.007	0.44	0.081	0.126	0.0005	0.0005	0.008	0.007	0.0001	0.00008	48.7	45	1	0.001	0.002
	8-Apr-22	1725.57	7.28	7.92	4.2	500																				
	11-Apr-22	1725.57	7.3	7.7	4.5	1320																				
	13-Apr-22	1725.57	8.13	7.64	1.9	550	428			216		0.02	0.36		0.075		0.0005		0.01		0.00003		43.4			0.001
	14-Apr-22	1725.57	8.03	7.8	5.9	1310																				
	20-Apr-22	1289.36	7.69	7.61	4.5	330	309			141		0.006	0.21		0.038		0.0005		0.003		0.00002		27.6			0.001
	22-Apr-22	1510.98	8.11	7.5	0.8																					
	25-Apr-22	3877.61	7.81	7.4	3.1	220																				
	27-Apr-22	3877.61	8.23	7.51	2.8	180	164	5	46	68.6	0.002	0.03	0.11	0.013	0.013	0.0005	0.0005	0.003	0.004	0.0001	0.00002	14.7	15	0.4	0.001	0.003
	29-Apr-22	2381.01	8.01	7.33	5.4																					
Average	2156	7.80	7.62	3.4	610	348	6	110	162	0.0	0.002	0.016	0.280	0.047	0.063	0.0005	0.0005	0.006	0.006	0.0001	0.00004	31.7	32.8	0.7	0.001	0.002
Minimum	1289	7.28	7.33	0.8	180	164	5	46	69	0.0	0.001	0.006	0.110	0.013	0.013	0.0005	0.0005	0.003	0.003	0.0001	0.00002	14.7	15.0	0.4	0.001	0.001
Maximum	3878	8.23	7.92	5.9	1320	489	7	173	223	0.0	0.002	0.030	0.440	0.081	0.126	0.0005	0.0005	0.008	0.010	0.0001	0.00008	48.7	45.0	1.0	0.001	0.003



Cobalt - Dissolved	Cobalt - Total	Copper - Dissolved	Copper - Total	Cyanide - Free	Cyanide - Total	Dissolved Organic Carbon	Iron - Dissolved	Iron - Total	Lead - Dissolved	Lead - Total	Magnesium - Dissolved	Magnesium - Total	Manganese - Dissolved	Manganese - Total	Mercury - Dissolved	Mercury - Total	Molybdenum - Dissolved	Molybdenum - Total	Nickel - Dissolved	Nickel - Total	Nitrate	Nitrite as Nitrogen	Phosphorus - Total	Potassium - Dissolved	Potassium - Total	Selenium - Dissolved	Selenium - Total
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000	
0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000	
0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000	

0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000	
0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000	
0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000	

0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000	
0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000	
0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000	

0.0063	0.0096	0.001	0.003	0.001	0.026	6.1	0.19	1.1	0.0001	0.0001	26.5	26	1.5	1.53	0.00001	0.00001	0.002	0.002	0.02	0.021	0.05	0.05	0.177	2.9	2.8	0.0005	0.0005	
					0.017																							
					0.022																							
	0.005		0.002		0.012			0.4		0.0001		22.5		0.81		0.0001		0.002		0.016			0.08		3		0.0005	
					0.021																							
	0.0016		0.001		0.028			0.37		0.0001		14		0.42		0.0001		0.001		0.005			0.05		2.3		0.0005	
					0.023																							
					0.023																							
0.001	0.0011	0.001	0.001	0.001	0.013	3	0.1	0.2	0.0001	0.0001	7.44	7.78	0.144	0.146	0.00001	0.00001	0.001	0.001	0.003	0.003	0.05	0.05	0.024	1.2	1.2	0.0005	0.0005	
					0.009																							
0.0037	0.0043	0.001	0.002	0.001	0.019	4.6	0.1	0.5	0.0001	0.0001	17.0	17.6	0.822	0.727	0.0000	0.0001	0.002	0.002	0.012	0.011	0.05	0.05	0.083	2.1	2.3	0.0005	0.0005	
0.0010	0.0011	0.001	0.001	0.001	0.009	3.0	0.1	0.2	0.0001	0.0001	7.4	7.8	0.144	0.146	0.0000	0.0000	0.001	0.001	0.003	0.003	0.05	0.05	0.024	1.2	1.2	0.0005	0.0005	
0.0063	0.0096	0.001	0.003	0.001	0.028	6.1	0.2	1.1	0.0001	0.0001	26.5	26.0	1.500	1.530	0.0000	0.0001	0.002	0.002	0.020	0.021	0.05	0.05	0.177	2.9	3.0	0.0005	0.0005	



Silver - Dissolved	Silver - Total	Sodium - Dissolved	Sodium - Total	Sulphate	Suspended Solids Total	Thallium - Dissolved	Thallium - Total	Total Dissolved Solids	Total Organic Carbon	Un-Ionized Ammonia	Uranium - Dissolved	Uranium - Total	Vanadium - Dissolved	Vanadium - Total	Zinc - Dissolved	Zinc - Total
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

0.0001	0.0001	4.2	4.1	103	3	0.0001	0.0001	315	6.9	0.002	0.001	0.001	0.001	0.001	0.002	0.003
					1.5											
					1.3											
	0.0001		1		4		0.0001			0.005		0.001		0.001		0.004
					3.3											
	0.0001		2.5		0.67		0.0001			0.002		0.001		0.001		0.003
					1											
					0.67											
0.0001	0.0001	1.4	1.5	36.1	1.3	0.0001	0.0001	120	3.1	0.002	0.001	0.001	0.001	0.001	0.001	0.002
					1.3											
0.0001	0.0001	2.8	2.3	70	1.8	0.0001	0.0001	218	5.0	0.003	0.001	0.001	0.001	0.001	0.002	0.003
0.0001	0.0001	1.4	1.0	36	0.7	0.0001	0.0001	120	3.1	0.002	0.001	0.001	0.001	0.001	0.001	0.002
0.0001	0.0001	4.2	4.1	103	4.0	0.0001	0.0001	315	6.9	0.005	0.001	0.001	0.001	0.001	0.002	0.004

**Table 1 - ECA 3827-CCJHRD Public Report- Section 3, Schedule F**

**B. Summary of Effluent Concentrations**

**PM122**

**Concentrations**

	Flow Rate	Field pH	Lab pH	Field Temp	Field Electrical Conductivity	Lab Electrical Conductivity	Acidity	Alkalinity	Total Hardness	Turbidity	Aluminium - Dissolved	Aluminium - Total	Ammonia as N	Arsenic - Dissolved	Arsenic - Total	Beryllium - Dissolved	Beryllium - Total	Boron - Dissolved	Boron - Total	Cadmium - Dissolved	Cadmium - Total	Calcium - Dissolved	Calcium - Total	Chloride	Chromium - Dissolved	Chromium - Total	
	m <sup>3</sup> /day	pH unit	pH unit	Deg C	(umhos/cm)	(umhos/cm)	mg/L CaCO3	CaCO3 (mg/L)	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
<b>May</b>	<b>No. Days Discharged</b>	<b>31</b>																									
	02-May-22	1799.19	7.99	7.29	2.3	100																					
	04-May-22	7181.06	7.41	7.29	2.6	150	134	5	47	54.5		0.004	0.059	0.04	0.011	0.012	0.0005	0.0005	0.004	0.004	0.0001	0.00002	12.8	13	0.6	0.002	0.001
	06-May-22	5383.56	7.96	7.66	4	200																					
	09-May-22	2168.04	7.54	7.71	10.9																						
	11-May-22	1527.83	8.17	7.83	14.1	290	290			114		0.016	0.01		0.028		0.0005		0.006		0.00002		28.9			0.001	
	13-May-22	937.05	7.89	7.79	15.7	290																					
	16-May-22	491.39	7.86	7.86	15.7		301																				
	18-May-22	273.96	7.83	7.95	11.6	320	312			153		0.001	0.012	0.02	0.041	0.054	0.0005	0.0005	0.471	0.522	0.0001	0.00002	36.6	36.1		0.001	0.001
	20-May-22	149.14	8.18	7.92	13.4	320	302																				
	24-May-22	221.43	7.92	7.89	12.7		298																				
	25-May-22	169.38	8.09	7.93	16.1	370	290			135		0.001	0.004	0.02	0.034	0.041	0.0005	0.0005	0.004	0.003	0.0001	0.00002	31.4	30.7		0.001	0.001
	27-May-22	687.05	8.32	7.83	13.8	300	284																				
	30-May-22	368.73	7.82	7.97	16.9	320	275																				
<b>Average</b>		1643	7.92	7.76	11.5	266	276	5	47	114	0.0	0.002	0.023	0.023	0.029	0.034	0.0005	0.0005	0.160	0.134	0.0001	0.00002	26.9	27.2	0.6	0.001	0.001
<b>Minimum</b>		149	7.41	7.29	2.3	100	134	5	47	55	0.0	0.001	0.004	0.010	0.011	0.012	0.0005	0.0005	0.004	0.003	0.0001	0.00002	12.8	13.0	0.6	0.001	0.001
<b>Maximum</b>		7181	8.32	7.97	16.9	370	312	5	47	153	0.0	0.004	0.059	0.040	0.041	0.054	0.0005	0.0005	0.471	0.522	0.0001	0.00002	36.6	36.1	0.6	0.002	0.001
<b>June</b>	<b>No. Days Discharged</b>	<b>30</b>																									
	01-Jun-22	350.23	7.88	8	21.8	290	279	5	81	135		0.002	0.006	0.05	0.041	0.044	0.0005	0.0005	0.009	0.007	0.0001	0.00002	26.8	31.2	0.3	0.001	0.001
	03-Jun-22	169.38	7.88	8	16.7	330	285																				
	06-Jun-22	130.26	8.18	8.08	18		272																				
	08-Jun-22	96.62	8.05	7.86	17.7	300	263			111		0.001	0.015	0.01	0.048	0.051	0.0005	0.0005	0.002	0.002	0.0001	0.00003	25.6	28		0.001	0.001
	10-Jun-22	96.62	8.28	7.79	15.4	280	276																				
	15-Jun-22	572.38	8.2	7.89	19.4	250	230			104		0.003	0.008	0.01	0.033	0.033	0.0005	0.0005	0.006	0.007	0.0001	0.00002	17.9	18.8		0.001	0.001
	17-Jun-22	469.54	7.84	7.72	17.2	260																					
	20-Jun-22	163.43	7.69	7.7	15.7																						
	22-Jun-22	163.43	7.92	7.91	20.5	340	270			132			0.005	0.04		0.046		0.0005		0.009		0.00002		27.3			0.001
	24-Jun-22	70.05	7.89	7.61	21	360	259																				
	27-Jun-22	76.47	7.63	7.33	17.3		290																				
	29-Jun-22	49.4	7.91	7.71	19.4		299			153		0.001	0.007	0.08	0.047	0.065	0.0005	0.0005	0.005	0.008	0.0001	0.00002	30.9	30.3		0.001	0.001
	30-Jun-22	52.41	7.92	7.65	15.7	360	282																				
<b>Average</b>		189	7.94	7.79	18.1	308	273	5	81	127	0.0	0.002	0.008	0.038	0.042	0.048	0.0005	0.0005	0.006	0.007	0.0001	0.00002	25.3	27.1	0.3	0.001	0.001
<b>Minimum</b>		49	7.63	7.33	15.4	250	230	5	81	104	0.0	0.001	0.005	0.010	0.033	0.033	0.0005	0.0005	0.002	0.002	0.0001	0.00002	17.9	18.8	0.3	0.001	0.001
<b>Maximum</b>		572	8.28	8.08	21.8	360	299	5	81	153	0.0	0.003	0.015	0.080	0.048	0.065	0.0005	0.0005	0.009	0.009	0.0001	0.00003	30.9	31.2	0.3	0.001	0.001
<b>Quarter 3</b>	<b>No. Days Discharged</b>	<b>15</b>																									
<b>July</b>																											
	05-Jul-22	35.82	8.07	7.56	18.5	350																					
	06-Jul-22	49.4	8.06	7.89	16.6	294	300	5	91	127		0.001	0.006	0.14	0.036	0.051	0.0005	0.0005	0.01	0.01	0.0001	0.00002	25.7	25.6	0.2	0.002	0.005
	08-Jul-22	33.4	7.9	7.97	16.9	360																					
	11-Jul-22	19.11	7.92	8.01	19.1		285																				
	13-Jul-22	15.84	8.21	7.91	16.2	390	305			153		0.003	0.01	0.09	0.062	0.073	0.0005	0.0005	0.002	0.002	0.0001	0.00002	30.7	33.3		0.002	0.001
	15-Jul-22	5.93	8.17	8.1	18.6	350	293																				
<b>Average</b>		27	8.06	7.91	17.7	349	296	5	91	140	0.0	0.002	0.008	0.115	0.049	0.062	0.0005	0.0005	0.006	0.006	0.0001	0.00002	28.2	29.5	0.2	0.002	0.003
<b>Minimum</b>		6	7.90	7.56	16.2	294	285	5	91	127	0.0	0.001	0.006	0.090	0.036	0.051	0.0005	0.0005	0.002	0.002	0.0001	0.00002	25.7	25.6	0.2	0.002	0.001
<b>Maximum</b>		49	8.21	8.10	19.1	390	305	5	91	153	0.0	0.003	0.010	0.140	0.062	0.073	0.0005	0.0005	0.010	0.010	0.0001	0.00002	30.7	33.3	0.2	0.002	0.005

Cobalt - Dissolved	Cobalt - Total	Copper - Dissolved	Copper - Total	Cyanide - Free	Cyanide - Total	Dissolved Organic Carbon	Iron - Dissolved	Iron - Total	Lead - Dissolved	Lead - Total	Magnesium - Dissolved	Magnesium - Total	Manganese - Dissolved	Manganese - Total	Mercury - Dissolved	Mercury - Total	Molybdenum - Dissolved	Molybdenum - Total	Nickel - Dissolved	Nickel - Total	Nitrate	Nitrite as Nitrogen	Phosphorus - Total	Potassium - Dissolved	Potassium - Total	Selenium - Dissolved	Selenium - Total
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

0.0005	0.0007	0.001	0.002	0.001	0.004	3.7	0.09	0.28	0.0001	0.0001	5.6	5.61	0.076	0.086	0.00001	0.00001	0.001	0.001	0.003	0.003	0.05	0.05	0.242	1.4	1.4	0.0005	0.0005
					0.006																						
	0.0009		0.001		0.003			0.34		0.0003		12.4		0.056		0.0001		0.004		0.007			0.05		2.4		0.0005
					0.004																						
0.0003	0.0009	0.001	0.001		0.009		0.19	0.53	0.0001	0.0011	15.7	14.8	0.001	0.034	0.0001	0.0001	0.001	0.001	0.007	0.008			0.05	2.6	2.5	0.0005	0.0005
					0.002																						
0.0003	0.0006	0.001	0.001		0.002		0.34	0.48	0.0001	0.0001	14.3	13.3	0.001	0.023	0.0001	0.0001	0.001	0.002	0.006	0.006			0.05	2.2	2.1	0.0005	0.0005
					0.004																						
					0.003																						
0.0004	0.0008	0.001	0.001	0.001	0.004	3.7	0.2	0.4	0.0001	0.0004	11.9	11.5	0.026	0.050	0.0001	0.0001	0.001	0.002	0.005	0.006	0.05	0.05	0.098	2.1	2.1	0.0005	0.0005
0.0003	0.0006	0.001	0.001	0.001	0.002	3.7	0.1	0.3	0.0001	0.0001	5.6	5.6	0.001	0.023	0.0000	0.0000	0.001	0.001	0.003	0.003	0.05	0.05	0.050	1.4	1.4	0.0005	0.0005
0.0005	0.0009	0.001	0.002	0.001	0.011	3.7	0.3	0.5	0.0001	0.0011	15.7	14.8	0.076	0.086	0.0001	0.0001	0.001	0.004	0.007	0.008	0.05	0.05	0.242	2.6	2.5	0.0005	0.0005

0.0003	0.0011	0.001	0.001	0.002	0.002	6	0.47	0.6	0.0001	0.0001	14.9	14.1	0.001	0.073	0.00001	0.00001	0.001	0.001	0.006	0.007	0.05	0.05	0.05	2	1.9	0.0005	0.0005
					0.002																						
					0.009																						
0.0003	0.0008	0.001	0.003		0.002		0.26	0.44	0.0001	0.0001	12.5	12.9	0.001	0.046	0.0001	0.0001	0.001	0.001	0.006	0.006			0.05	1.4	1.4	0.0005	0.0005
					0.002																						
0.0005	0.001	0.001	0.001		0.002		0.22	0.3	0.0001	0.0001	13.8	13.4	0.002	0.048	0.0001	0.0001	0.001	0.001	0.006	0.006			0.05	1.3	1.2	0.0005	0.0005
					0.002																						
	0.0013		0.001		0.007			0.43		0.0001		14.3		0.056		0.0001		0.004		0.008			0.05		1.2		0.0005
					0.002																						
					0.018																						
0.0004	0.0017	0.001	0.002		0.009		0.27	0.58	0.0001	0.0002	16.6	16.2	0.001	0.075	0.0001	0.0001	0.001	0.001	0.008	0.009			0.06	1.3	1.2	0.0005	0.0005
					0.016																						
0.0004	0.0012	0.001	0.002	0.002	0.006	6.0	0.3	0.5	0.0001	0.0001	14.5	14.2	0.001	0.060	0.0001	0.0001	0.001	0.002	0.007	0.007	0.05	0.05	0.052	1.5	1.4	0.0005	0.0005
0.0003	0.0008	0.001	0.001	0.002	0.002	6.0	0.2	0.3	0.0001	0.0001	12.5	12.9	0.001	0.046	0.0000	0.0000	0.001	0.001	0.006	0.006	0.05	0.05	0.050	1.3	1.2	0.0005	0.0005
0.0005	0.0017	0.001	0.003	0.002	0.018	6.0	0.5	0.6	0.0001	0.0002	16.6	16.2	0.002	0.075	0.0001	0.0001	0.001	0.004	0.008	0.009	0.05	0.05	0.060	2.0	1.9	0.0005	0.0005

0.0004	0.0014	0.001	0.001	0.003	0.005	6	0.22	0.56	0.0001	0.0002	14.2	13.9	0.001	0.047	0.00001	0.00001	0.003	0.005	0.008	0.009	0.05	0.05	0.072	0.8	0.7	0.0029	0.0027
					0.004																						
					0.002																						
0.0009	0.0014	0.003	0.002		0.009		0.38	0.48	0.0003	0.0003	16.4	16.9	0.005	0.037	0.0001	0.0001	0.002	0.002	0.009	0.009			0.07	0.7	0.7	0.0002	0.0002
					0.002																						
0.0007	0.0014	0.002	0.002	0.003	0.004	6.0	0.3	0.5	0.0002	0.0003	15.3	15.4	0.003	0.042	0.0001	0.0001	0.003	0.004	0.009	0.009	0.05	0.05	0.071	0.8	0.7	0.0016	0.0015
0.0004	0.0014	0.001	0.001	0.003	0.002	6.0	0.2	0.5	0.0001	0.0002	14.2	13.9	0.001	0.037	0.0000	0.0000	0.002	0.002	0.008	0.009	0.05	0.05	0.070	0.7	0.7	0.0002	0.0002
0.0009	0.0014	0.003	0.002	0.003	0.009	6.0	0.4	0.6	0.0003	0.0003	16.4	16.9	0.005	0.047	0.0001	0.0001	0.003	0.005	0.009	0.009	0.05	0.05	0.072	0.8	0.7	0.0029	0.0027

Silver - Dissolved	Silver - Total	Sodium - Dissolved	Sodium - Total	Sulphate	Suspended Solids Total	Thallium - Dissolved	Thallium - Total	Total Dissolved Solids	Total Organic Carbon	Un-Ionized Ammonia	Uranium - Dissolved	Uranium - Total	Vanadium - Dissolved	Vanadium - Total	Zinc - Dissolved	Zinc - Total
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

					1.3											
0.0001	0.0001	0.9	0.9	22.6	2.3	0.0001	0.0001	90		0.002	0.001	0.001	0.001	0.001	0.001	0.002
					3.7											
					1.7											
	0.0001		2.2		2.7		0.0001			0.002		0.001		0.001		0.017
					2											
					3											
0.0001	0.0001	2.4	2.3		2	0.0001	0.0001			0.002	0.001	0.001	0.001	0.001	0.036	0.255
					2											
					1											
0.0001	0.0001	2.2	2.1		1.3	0.0001	0.0001			0.002	0.001	0.001	0.001	0.001	0.012	0.018
					0.67											
					1.3											
0.0001	0.0001	1.8	1.9	23	1.9	0.0001	0.0001	90	0.0	0.002	0.001	0.001	0.001	0.001	0.016	0.073
0.0001	0.0001	0.9	0.9	23	0.7	0.0001	0.0001	90	0.0	0.002	0.001	0.001	0.001	0.001	0.001	0.002
0.0001	0.0001	2.4	2.3	23	3.7	0.0001	0.0001	90	0.0	0.002	0.001	0.001	0.001	0.001	0.036	0.255

0.0001	0.0001	2.4	2.3	60.1	1	0.0001	0.0001	225		0.002	0.001	0.001	0.001	0.001	0.007	0.016
					1											
					1.3											
0.0001	0.0001	1.9	2.4		1	0.0001	0.0001			0.002	0.001	0.001	0.001	0.001	0.014	0.025
					1											
0.0001	0.0001	2.1	2.1		1	0.0001	0.0001			0.002	0.001	0.001	0.001	0.001	0.004	0.008
					2											
					2											
	0.0001		2.1		1		0.0001			0.002		0.001		0.001		0.027
					1.7											
					3.7											
0.0001	0.0001	2.1	2.2		1.3	0.0001	0.0001			0.002	0.001	0.001	0.001	0.001	0.034	0.056
0.0001	0.0001	2.1	2.2	60	1.5	0.0001	0.0001	225	0.0	0.002	0.001	0.001	0.001	0.001	0.015	0.026
0.0001	0.0001	1.9	2.1	60	1.0	0.0001	0.0001	225	0.0	0.002	0.001	0.001	0.001	0.001	0.004	0.008
0.0001	0.0001	2.4	2.4	60	3.7	0.0001	0.0001	225	0.0	0.002	0.001	0.001	0.001	0.001	0.034	0.056

					1											
0.0001	0.0001	1.7	1.7	63.2	2	0.0001	0.0001	175	6	0.005	0.001	0.001	0.001	0.001	0.027	0.048
					2.3											
					2											
0.0023	0.0001	1.8	2		3.3	0.0001	0.0001			0.004	0.001	0.001	0.001	0.001	0.049	0.064
					2.3											
0.0012	0.0001	1.8	1.9	63	2.2	0.0001	0.0001	175	6.0	0.005	0.001	0.001	0.001	0.001	0.038	0.056
0.0001	0.0001	1.7	1.7	63	1.0	0.0001	0.0001	175	6.0	0.004	0.001	0.001	0.001	0.001	0.027	0.048
0.0023	0.0001	1.8	2.0	63	3.3	0.0001	0.0001	175	6.0	0.005	0.001	0.001	0.001	0.001	0.049	0.064

**Table 1 - ECA 3827-CCJHRD Public Report- Section 3, Schedule F**

**B. Summary of Effluent Concentrations**

**PM122**

Concentrations																									
Flow Rate	Field pH	Lab pH	Field Temp	Field Electrical Conductivity (umhos/cm)	Lab Electrical Conductivity (umhos/cm)	Acidity (mg/L CaCO3)	Alkalinity (CaCO3 (mg/L))	Total Hardness (mg/L)	Turbidity (NTU)	Aluminium - Dissolved (mg/L)	Aluminium - Total (mg/L)	Ammonia as N (mg/L)	Arsenic - Dissolved (mg/L)	Arsenic - Total (mg/L)	Beryllium - Dissolved (mg/L)	Beryllium - Total (mg/L)	Boron - Dissolved (mg/L)	Boron - Total (mg/L)	Cadmium - Dissolved (mg/L)	Cadmium - Total (mg/L)	Calcium - Dissolved (mg/L)	Calcium - Total (mg/L)	Chloride (mg/L)	Chromium - Dissolved (mg/L)	Chromium - Total (mg/L)

**Quarter 3**

August	No. Days Discharged	0																							
Average	0	0.00	0.00	0.0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000
Minimum	0	0.00	0.00	0.0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000
Maximum	0	0.00	0.00	0.0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000

September	No. Days Discharged	0																							
Average	0	0.00	0.00	0.0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000
Minimum	0	0.00	0.00	0.0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000
Maximum	0	0.00	0.00	0.0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0	0.000	0.000

October	No. Days Discharged	29																								
05-Oct-22	13285.47	8.25	8.27	13.4	300	302	5	108	149	0.7	0.001	0.005	0.01	0.064	0.06	0.0005	0.0005	0.008	0.006	0.0001	0.00002	28.5	29.9	0.3	0.001	0.001
06-Oct-22	6489.635	7.8	8.38	12.7		242																				
07-Oct-22	4472.258	7.91	8	7.4	260	253																				
11-Oct-22	1469.187	8.1	8.38	9.9	270	258	5	70	118	0.9	0.003	0.007	0.01	0.02	0.02	0.0005	0.0005	0.006	0.003	0.0001	0.00002	21.4	20.1	0.2	0.001	0.001
14-Oct-22	843.7358	7.33	8.12	8.9	260	255																				
17-Oct-22	502.5248	7.7	8.1	7.5	260	254																				
19-Oct-22	1158.719	7.52	7.84	5.3	270	256	9	76	121	2.2	0.003	0.035	0.01	0.019	0.02	0.0005	0.0005	0.005	0.004	0.0001	0.00002	23.3	22.7	0.3	0.001	0.001
21-Oct-22	2168.035	8.45	8.32	4.9	340	255																				
24-Oct-22	1308.679	7.99	8.36	9.3	310	246																				
25-Oct-22	1105.166	7.46	8.02	11.4	280	257	10	81	122	0.8	0.038	0.014	0.02	0.019	0.02	0.0005	0.0005	0.009	0.007	0.0001	0.00002	24.4	23.7	0.3	0.002	0.001
28-Oct-22	1087.636	7.53	8.12	6.6	280	265																				
31-Oct-22	660.5306	7.55	8.01	7	290	267																				
Average	2879	7.80	8.16	8.7	284	259	7	84	128	1.2	0.011	0.015	0.013	0.031	0.030	0.0005	0.0005	0.007	0.005	0.0001	0.00002	24.4	24.1	0.3	0.001	0.001
Minimum	503	7.33	7.84	4.9	260	242	5	70	118	0.7	0.001	0.005	0.010	0.019	0.020	0.0005	0.0005	0.005	0.003	0.0001	0.00002	21.4	20.1	0.2	0.001	0.001
Maximum	13285	8.45	8.38	13.4	340	302	10	108	149	2.2	0.038	0.035	0.020	0.064	0.060	0.0005	0.0005	0.009	0.007	0.0001	0.00002	28.5	29.9	0.3	0.002	0.001

Cobalt - Dissolved	Cobalt - Total	Copper - Dissolved	Copper - Total	Cyanide - Free	Cyanide - Total	Dissolved Organic Carbon	Iron - Dissolved	Iron - Total	Lead - Dissolved	Lead - Total	Magnesium - Dissolved	Magnesium - Total	Manganese - Dissolved	Manganese - Total	Mercury - Dissolved	Mercury - Total	Molybdenum - Dissolved	Molybdenum - Total	Nickel - Dissolved	Nickel - Total	Nitrate	Nitrite as Nitrogen	Phosphorus - Total	Potassium - Dissolved	Potassium - Total	Selenium - Dissolved	Selenium - Total
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000
0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000
0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000

0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000
0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000
0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.0	0.0	0.0000	0.0000

0.0002	0.0003	0.001	0.001	0.003	0.002	3.6	0.1	0.11	0.0001	0.0001	19.1	18.6	0.001	0.011	0.00001	0.00001	0.001	0.001	0.003	0.003	0.05	0.05	0.033	0.7	0.6	0.0005	0.0005
				0.003	0.011																						
				0.003	0.005																						
0.0004	0.0005	0.001	0.001	0.004	0.003	7.2	0.11	0.15	0.0001	0.0001	14.1	12.6	0.002	0.007	0.0001	0.0001	0.001	0.001	0.005	0.005	0.05	0.05	0.008	1.4	1.3	0.0005	0.0005
				0.002	0.002																						
				0.003	0.002																						
0.0003	0.0005	0.001	0.001	0.003	0.002	7.8	0.13	0.26	0.0001	0.0002	15.2	14.7	0.001	0.014	0.0001	0.0001	0.001	0.001	0.005	0.005	0.05	0.05	0.019	1.7	1.6	0.0005	0.0005
				0.001	0.003																						
				0.001	0.007																						
0.0007	0.0005	0.001	0.001	0.001	0.004	7.7	0.13	0.19	0.0001	0.0001	15.3	14.5	0.001	0.007	0.00001	0.00001	0.009	0.005	0.006	0.006	0.11	0.05	0.023	1.5	1.5	0.0005	0.0005
				0.001	0.004																						
				0.003	0.003																						
0.0004	0.0005	0.001	0.001	0.002	0.004	6.6	0.1	0.2	0.0001	0.0001	15.9	15.1	0.001	0.010	0.0001	0.0001	0.003	0.002	0.005	0.005	0.07	0.05	0.021	1.3	1.3	0.0005	0.0005
0.0002	0.0003	0.001	0.001	0.001	0.002	3.6	0.1	0.1	0.0001	0.0001	14.1	12.6	0.001	0.007	0.0000	0.0000	0.001	0.001	0.003	0.003	0.05	0.05	0.008	0.7	0.6	0.0005	0.0005
0.0007	0.0005	0.001	0.001	0.004	0.011	7.8	0.1	0.3	0.0001	0.0002	19.1	18.6	0.002	0.014	0.0001	0.0001	0.009	0.005	0.006	0.006	0.11	0.05	0.033	1.7	1.6	0.0005	0.0005



Silver - Dissolved	Silver - Total	Sodium - Dissolved	Sodium - Total	Sulphate	Suspended Solids Total	Thallium - Dissolved	Thallium - Total	Total Dissolved Solids	Total Organic Carbon	Un-Ionized Ammonia	Uranium - Dissolved	Uranium - Total	Vanadium - Dissolved	Vanadium - Total	Zinc - Dissolved	Zinc - Total
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

0.0001	0.0001	1.5	1.4	60.3	1	0.0001	0.0001	195	4.3	0.002	0.001	0.001	0.001	0.001	0.002	0.003
					2.7											
					1											
0.0001	0.0001	2.1	1.9	64.8	1.3	0.0001	0.0001	220	6.5	0.002	0.001	0.001	0.001	0.001	0.004	0.005
					3											
					1											
0.0001	0.0001	2.3	2.2	62.5	2.7	0.0001	0.0001	175	6.5	0.002	0.001	0.001	0.001	0.001	0.017	0.02
					2											
					1											
0.0001	0.0002	2.6	2.5	64.5	1.3	0.0001	0.0001	180	6.1	0.002	0.001	0.001	0.001	0.001	0.008	0.004
					1.7											
					1.7											
0.0001	0.0001	2.1	2.0	63	1.7	0.0001	0.0001	193	5.9	0.002	0.001	0.001	0.001	0.001	0.008	0.008
0.0001	0.0001	1.5	1.4	60	1.0	0.0001	0.0001	175	4.3	0.002	0.001	0.001	0.001	0.001	0.002	0.003
0.0001	0.0002	2.6	2.5	65	3.0	0.0001	0.0001	220	6.5	0.002	0.001	0.001	0.001	0.001	0.017	0.020



**Table 1 - ECA 3827-CCJHRD Public Report- Section 3, Schedule F**

**B. Summary of Effluent Concentrations**

**PM122**

Concentrations																											
	Flow Rate	Field pH	Lab pH	Field Temp	Field Electrical Conductivity	Lab Electrical Conductivity	Acidity	Alkalinity	Total Hardness	Turbidity	Aluminium - Dissolved	Aluminium - Total	Ammonia as N	Arsenic - Dissolved	Arsenic - Total	Beryllium - Dissolved	Beryllium - Total	Boron - Dissolved	Boron - Total	Cadmium - Dissolved	Cadmium - Total	Calcium - Dissolved	Calcium - Total	Chloride	Chromium - Dissolved	Chromium - Total	
	m <sup>3</sup> /day	pH unit	pH unit	Deg C	(umhos/cm)	(umhos/cm)	mg/L CaCO3	CaCO3 (mg/L)	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
<b>November</b>	<b>No. Days Discharged</b>	<b>30</b>																									
	02-Nov-22	502.5248	7.61	8.12	6.8	330	267	5	48	135	1.8	0.004	0.052	0.01	0.02	0.022	0.0005	0.0005	0.003	0.003	0.0001	0.00002	27.1	25.2	0.3	0.001	0.001
	04-Nov-22	378.186	7.34	7.77	10	300	270																				
	07-Nov-22	2116.572	7.33	7.65	6.1	310	253																				
	09-Nov-22	1662.589	7.3	7.74	3.4	330	261	7	80	135	1.6	0.003	0.047	0.01	0.016	0.018	0.0005	0.0005	0.002	0.002	0.0001	0.00002	25.5	23.4	0.3	0.002	0.001
	10-Nov-22	1469.187	7.7	7.91	6	300	263																				
	15-Nov-22	5515.365	6.9	7.8	1.6	260	248																				
	16-Nov-22	4089.748	7.06	7.92	1.6	270	246	6	81	109	2.1	0.002	0.035	0.01	0.016	0.017	0.0005	0.0005	0.002	0.002	0.0001	0.00002	20	20.2	0.5	0.001	0.001
	18-Nov-22	2463.833	6.95	7.91	1.5		250																				
	21-Nov-22	1308.679	7.07	7.71	2		263																				
	23-Nov-22	1036.01	7.12	7.97	1.3	280	255	5	77	122	1.5	0.004	0.027	0.03	0.018	0.018	0.0005	0.0005	0.004	0.003	0.0001	0.00002	24.8	24.1	0.7	0.002	0.001
	25-Nov-22	799.172	8.1	7.68	7.2	260	233																				
	28-Nov-22	937.0478	6.96	7.9	3	330	267																				
	30-Nov-22	770.2302	7.86	7.7	3.7	330	257	7	84	123	0.9	0.003	0.013	0.01	0.018	0.017	0.0005	0.0005	0.005	0.005	0.0001	0.00002	26.1	25.6	0.6	0.001	0.001
<b>Average</b>		1773	7.33	7.83	4.2	300	256	6	74	125	1.6	0.003	0.035	0.014	0.018	0.018	0.0005	0.0005	0.003	0.003	0.0001	0.00002	24.7	23.7	0.5	0.001	0.001
<b>Minimum</b>		378	6.90	7.65	1.3	260	233	5	48	109	0.9	0.002	0.013	0.010	0.016	0.017	0.0005	0.0005	0.002	0.002	0.0001	0.00002	20.0	20.2	0.3	0.001	0.001
<b>Maximum</b>		5515	8.10	8.12	10.0	330	270	7	84	135	2.1	0.004	0.052	0.030	0.020	0.022	0.0005	0.0005	0.005	0.005	0.0001	0.00002	27.1	25.6	0.7	0.002	0.001
<b>December</b>	<b>No. Days Discharged</b>	<b>19</b>																									
	02-Dec-22	687.0521	7.69	7.78	1.5	300	260																				
	05-Dec-22	572.3805	7.32	7.84	1.7	320	290																				
	07-Dec-22	502.5248	7.46	7.94	1.4	320	284	5	94	146	0.9	0.002	0.014	0.01	0.019	0.018	0.0005	0.0005	0.004	0.004	0.0001	0.00002	28.3	26.9	0.6	0.001	0.001
	09-Dec-22	427.5391	7.34	7.88	1.1	330	302																				
	12-Dec-22	323.4931	7.15	7.78	0.9	420	285																				
	14-Dec-22	243.0292	6.68	7.84	1.9	410	301	7	104	146	0.7	0.002	0.008	0.01	0.022	0.022	0.0005	0.0005	0.004	0.004	0.0001	0.00002	31	29.1	0.7	0.001	0.001
	16-Dec-22	250.4864	7.32	7.92	2.1	390	320																				
	29-Dec-22	3620.823	6.96	7.74	4	450	372	8	132	174	2.4	0.001	0.004	0.03	0.039	0.04	0.0005	0.0005	0.002	0.002	0.0001	0.00002	33.6	32.2	0.8	0.001	0.001
	30-Dec-22	2168.035	7.67	7.59	2.7	430	355																				
<b>Average</b>		977	7.29	7.81	1.9	374	308	7	110	155	1.3	0.002	0.009	0.017	0.027	0.027	0.0005	0.0005	0.003	0.003	0.0001	0.00002	31.0	29.4	0.7	0.001	0.001
<b>Minimum</b>		243	6.68	7.59	0.9	300	260	5	94	146	0.7	0.001	0.004	0.010	0.019	0.018	0.0005	0.0005	0.002	0.002	0.0001	0.00002	28.3	26.9	0.6	0.001	0.001
<b>Maximum</b>		3621	7.69	7.94	4.0	450	372	8	132	174	2.4	0.002	0.014	0.030	0.039	0.040	0.0005	0.0005	0.004	0.004	0.0001	0.00002	33.6	32.2	0.8	0.001	0.001

Notes: Less than MDL

Cobalt - Dissolved	Cobalt - Total	Copper - Dissolved	Copper - Total	Cyanide - Free	Cyanide - Total	Dissolved Organic Carbon	Iron - Dissolved	Iron - Total	Lead - Dissolved	Lead - Total	Magnesium - Dissolved	Magnesium - Total	Manganese - Dissolved	Manganese - Total	Mercury - Dissolved	Mercury - Total	Molybdenum - Dissolved	Molybdenum - Total	Nickel - Dissolved	Nickel - Total	Nitrate	Nitrite as Nitrogen	Phosphorus - Total	Potassium - Dissolved	Potassium - Total	Selenium - Dissolved	Selenium - Total
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

0.0003	0.0008	0.001	0.002	0.002	0.003	6.1	0.08	0.22	0.0001	0.0003	15.5	14.8	0.001	0.022	0.00001	0.00001	0.001	0.001	0.006	0.006	0.05	0.05	0.005	1.6	1.5	0.0005	0.0005
				0.001	0.003																						
				0.005	0.005																						
0.0003	0.0005	0.001	0.001	0.003	0.007	7.8	0.09	0.17	0.0001	0.0001	14.8	13.8	0.001	0.009	0.0001	0.0001	0.002	0.001	0.006	0.006	0.05	0.05	0.013	1.7	1.5	0.0002	0.0002
				0.002	0.003																						
				0.002	0.002																						
0.0002	0.0003	0.001	0.001	0.004	0.002	6.7	0.07	0.16	0.0001	0.0001	13.5	13.8	0.001	0.01	0.0001	0.0001	0.001	0.001	0.005	0.005	0.05	0.05	0.06	1.6	1.7	0.0005	0.0005
				0.004	0.007																						
				0.003	0.003																						
0.0018	0.0006	0.001	0.003	0.003	0.004	8.1	0.12	0.2	0.0001	0.0001	14.1	13.2	0.001	0.009	0.0001	0.0001	0.001	0.002	0.006	0.005	0.05	0.05	0.092	2	1.9	0.0005	0.0005
				0.001	0.005																						
				0.003	0.005																						
0.0002	0.0004	0.001	0.002	0.004	0.006	9.1	0.14	0.17	0.0001	0.0001	14.2	13.7	0.001	0.01	0.0001	0.0001	0.001	0.001	0.006	0.006	0.05	0.05	0.062	1.9	1.7	0.0005	0.0005
0.0006	0.0005	0.001	0.002	0.003	0.004	7.6	0.1	0.2	0.0001	0.0001	14.4	13.9	0.001	0.012	0.0001	0.0001	0.001	0.001	0.006	0.006	0.05	0.05	0.046	1.8	1.7	0.0004	0.0004
0.0002	0.0003	0.001	0.001	0.001	0.002	6.1	0.1	0.2	0.0001	0.0001	13.5	13.2	0.001	0.009	0.0000	0.0000	0.001	0.001	0.005	0.005	0.05	0.05	0.005	1.6	1.5	0.0002	0.0002
0.0018	0.0008	0.001	0.003	0.005	0.007	9.1	0.1	0.2	0.0001	0.0003	15.5	14.8	0.001	0.022	0.0001	0.0001	0.002	0.002	0.006	0.006	0.05	0.05	0.092	2.0	1.9	0.0005	0.0005

				0.002	0.003																						
				0.001	0.005																						
0.0002	0.0004	0.002	0.002	0.001	0.003	8.2	0.1	0.15	0.0001	0.0001	15.7	15.4	0.001	0.02	0.00001	0.00001	0.001	0.001	0.007	0.006	0.05	0.05	0.055	2.1	2	0.0005	0.0005
				0.003	0.003																						
				0.002	0.005																						
0.0007	0.0007	0.002	0.003	0.001	0.003	7.9	0.16	0.21	0.0001	0.0001	15.9	15.9	0.032	0.054	0.0001	0.0001	0.001	0.001	0.009	0.009	0.05	0.05	0.09	2.1	2	0.0005	0.0005
				0.002	0.003																						
0.003	0.0034	0.001	0.002	0.001	0.02	6.8	0.24	0.33	0.0001	0.0001	18.6	17.3	0.59	0.58	0.0001	0.0001	0.001	0.001	0.011	0.011	0.05	0.05	0.063	1.8	1.8	0.0005	0.0005
				0.002	0.022																						
0.0013	0.0015	0.002	0.002	0.002	0.007	7.6	0.2	0.2	0.0001	0.0001	16.7	16.2	0.208	0.218	0.0001	0.0001	0.001	0.001	0.009	0.009	0.05	0.05	0.069	2.0	1.9	0.0005	0.0005
0.0002	0.0004	0.001	0.002	0.001	0.003	6.8	0.1	0.2	0.0001	0.0001	15.7	15.4	0.001	0.020	0.0000	0.0000	0.001	0.001	0.007	0.006	0.05	0.05	0.055	1.8	1.8	0.0005	0.0005
0.0030	0.0034	0.002	0.003	0.003	0.022	8.2	0.2	0.3	0.0001	0.0001	18.6	17.3	0.590	0.580	0.0001	0.0001	0.001	0.001	0.011	0.011	0.05	0.05	0.090	2.1	2.0	0.0005	0.0005

Silver - Dissolved	Silver - Total	Sodium - Dissolved	Sodium - Total	Sulphate	Suspended Solids Total	Thallium - Dissolved	Thallium - Total	Total Dissolved Solids	Total Organic Carbon	Un-Ionized Ammonia	Uranium - Dissolved	Uranium - Total	Vanadium - Dissolved	Vanadium - Total	Zinc - Dissolved	Zinc - Total
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

0.0002	0.0002	2.3	2.3	67	3	0.0001	0.0001	195	6	0.002	0.001	0.001	0.001	0.001	0.013	0.029
					1.3											
					1.3											
0.0001	0.0001	2.2	2	60.8	1.3	0.0001	0.0001	185	5.4	0.002	0.001	0.001	0.001	0.001	0.004	0.007
					1.7											
					4.7											
0.0001	0.0001	1.9	1.9	58.1	2.3	0.0001	0.0001	150	6.9	0.002	0.001	0.001	0.001	0.001	0.004	0.012
					1.3											
					3											
0.0001	0.0012	2	1.8	59.2	1.7	0.0001	0.0001	170	7.7	0.002	0.001	0.001	0.001	0.001	0.006	0.01
					2.3											
					1											
0.0001	0.0001	2.1	2	61.7	1.3	0.0001	0.0001	165	8.3	0.002	0.001	0.001	0.001	0.001	0.006	0.01
0.0001	0.0003	2.1	2.0	61	2.0	0.0001	0.0001	173	6.9	0.002	0.001	0.001	0.001	0.001	0.007	0.014
0.0001	0.0001	1.9	1.8	58	1.0	0.0001	0.0001	150	5.4	0.002	0.001	0.001	0.001	0.001	0.004	0.007
0.0002	0.0012	2.3	2.3	67	4.7	0.0001	0.0001	195	8.3	0.002	0.001	0.001	0.001	0.001	0.013	0.029

					2.7											
					2											
0.0001	0.0001	2.1	2.1	63.5	1	0.0001	0.0001	210	7.6	0.002	0.001	0.001	0.001	0.001	0.005	0.014
					1.3											
					2.3											
0.0001	0.0001	2.2	2.2	68.4	1.3	0.0001	0.0001	195	8.2	0.002	0.001	0.001	0.001	0.001	0.006	0.007
					7.67											
0.0001	0.0001	2	1.9	79.7	2	0.0001	0.0001	250	7.2	0.002	0.001	0.001	0.001	0.001	0.008	0.011
					2.3											
0.0001	0.0001	2.1	2.1	71	2.5	0.0001	0.0001	218	7.7	0.002	0.001	0.001	0.001	0.001	0.006	0.011
0.0001	0.0001	2.0	1.9	64	1.0	0.0001	0.0001	195	7.2	0.002	0.001	0.001	0.001	0.001	0.005	0.007
0.0001	0.0001	2.2	2.2	80	7.7	0.0001	0.0001	250	8.2	0.002	0.001	0.001	0.001	0.001	0.008	0.014

**C. Summary of monitoring performed under Condition 8**

- 1) All samples were collected as per requirements of Condition 8 at appropriate intervals (Thrice Weekly, Weekly, Monthly Quarterly, Semi-Annual).
- 2) Samples were not collected if effluent was not being discharged
- 3) Methods and protocols for sampling a, analysis and recording conformed to the methods specified in the ECA
- 4) There was not 12 consecutive months of discharge, acute toxicity testing was performed monthly
- 5) No changes were made to acute toxicity testing
- 6) Water, benthos sediment, fish, toxicity testing and sampling was done in accordance with the "Pamour Mine Surface Water Monitoring Program". Summary of toxicity sampling below.

**Results**

Date	Rainbow Trout	Daphnia Magna	Ceriodaphnia Dubia		Fathead Minnow
	% mortality @ 100% Conc.		Reproduction	Survival	Growth
6-Apr-22	0%	0%			
27-Apr-22			>100%	>100%	>100%
6-Jul-22	0%	0%	>100%	>100%	73.5%
5-Oct-22	0%	0%			
25-Oct-22	0%	0%	>100%	>100%	>100%
29-Dec-22	0%	0%			

- 7) Daily effluent volumes can be found in Table 1.
- 8) A flow meter calibration was performed by a Licensed Engineering Practitioner during the reporting year. The flow meter and flow measuring device was found to be within +/- 15%.
- 9) No alterations were made to the flow measurement unit or method.
- 10) Flow measurement systems have been integrated into a maintenance schedule.
- 11) Flow measurement systems are accessible onsite if required
- 12) Records are retained under ECA 3827-CCJHRD for at least 5 years.

## D. Summary of Results that exceeded a Limit

There were no exceedances of the limits prescribed in Schedule B. Of note, the ECA was issued towards the end of 2022. When the ECA was issued additional requirements were added to PM122.

**Pamour Mine  
Pamour Mine (PETP)  
Final Discharge**







Table 1 - ECA 3827-CCJHRD Public Report- Section 2, Schedule F

A. Summary of Effluent Loadings

PETP

Loadings																																					
Collect Date	Aluminium - Dissolved	Aluminium - Total	Ammonia as N (mg/L)	Arsenic - Dissolved	Arsenic - Total	Beryllium - Dissolved	Beryllium - Total	Boron - Dissolved	Boron - Total	Cadmium - Dissolved	Cadmium - Total	Calcium - Dissolved	Calcium - Total	Chloride	Chromium - Dissolved	Chromium - Total	Cobalt - Dissolved	Cobalt - Total	Copper - Dissolved	Copper - Total	Cyanide - Free	Cyanide - Total	Dissolved Organic Carbon	Iron - Dissolved	Iron - Total	Lead - Dissolved	Lead - Total	Magnesium - Dissolved	Magnesium - Total	Manganese - Dissolved	Manganese - Total	Mercury - Dissolved	Mercury - Total	Molybdenum - Dissolved	Molybdenum - Total		
<b>Quarter 3</b>																																					
<b>August</b>																																					
Average Daily Load	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Monthly Load (kg/mo.)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>September</b>																																					
Average Daily Load	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Monthly Load (kg/mo.)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>October</b>																																					
3-Oct-22	0.0095	0.0854	1.2337	0.0095	0.0475	0.0047	0.0047	0.2088	0.1898	0.0009	0.0002	897.7540	1005.9400	128.1150	0.0190	0.0190	0.0304	0.0332	0.0095	0.0095	0.0190	0.0285	22.7760	4.2705	19.9290	0.0009	0.0009	446.0300	419.4580	0.2088	0.2088	0.0001	0.0001	0.0380	0.0380		
5-Oct-22	0.0183	0.1097	1.4620	0.0183	0.0914	0.0091	0.0091	0.3838	0.3655	0.0018	0.0004	1787.2950	1814.7075	252.1950	0.0366	0.0183	0.0493	0.0567	0.0183	0.0183	0.0183	0.0548	52.9975	5.2998	25.5850	0.0018	0.0018	880.8550	871.7175	0.3290	0.3290	0.0002	0.0002	0.0731	0.0731		
7-Oct-22																						0.0750	0.1688														
11-Oct-22																						0.0486	0.0243														
13-Oct-22	0.0171	0.1365	2.0478	0.0171	0.0853	0.0085	0.0085	0.3925	0.4266	0.0017	0.0003	1687.7285	1723.5650	230.3775	0.0171	0.0171	0.0751	0.0819	0.0341	0.0512	0.0512	0.1877	39.2495	15.3585	27.3040	0.0017	0.0017	810.5875	814.0005	0.3925	0.4096	0.0017	0.0017	0.0853	0.0683		
14-Oct-22																						0.0540	0.0720														
17-Oct-22																						0.0535	0.0803														
19-Oct-22	0.0162	0.0810	1.2962	0.0162	0.0810	0.0081	0.0081	0.2268	0.2106	0.0016	0.0003	1613.8188	1568.4504	215.4999	0.0162	0.0162	0.0518	0.0567	0.0162	0.0162	0.0810	0.1296	66.4323	5.8331	27.5451	0.0016	0.0016	755.0598	724.2741	0.2755	0.2755	0.0016	0.0016	0.0648	0.0648		
21-Oct-22																						0.0170	0.1190														
24-Oct-22																						0.0681	0.2043														
26-Oct-22	0.0167	0.0668	1.1696	0.0167	0.0835	0.0084	0.0084	0.1671	0.1504	0.0017	0.0003	1448.6703	1483.7592	240.6096	0.0334	0.0167	0.0485	0.0518	0.0167	0.0167	0.0835	0.0835	41.7725	4.8456	23.3926	0.0017	0.0017	721.8288	685.0690	0.2506	0.2506	0.0017	0.0017	0.0334	0.0334		
28-Oct-22																						0.0577	0.0865														
31-Oct-22																						0.0757	0.0605														
Average Daily Load	0.0155	0.0959	1.4419	0.0155	0.0777	0.0078	0.0078	0.2758	0.2686	0.0016	0.0003	1487.0533	1519.2844	213.3594	0.0244	0.0174	0.0510	0.0561	0.0190	0.0224	0.0540	0.1000	44.6456	7.1215	24.7511	0.0016	0.0016	722.8722	702.9038	0.2913	0.2947	0.0011	0.0011	0.0589	0.0555		
Monthly Load (kg/mo.)	0.4820	2.9725	44.6981	0.4820	2.4100	0.2410	0.2410	8.5497	8.3263	0.0482	0.0096	#####	#####	6614.1414	0.7577	0.5408	1.5816	1.7378	0.5878	0.6936	1.6754	3.0997	1384.0124	220.7661	767.2853	0.0482	0.0482	#####	#####	9.0291	9.1349	0.0327	0.0327	1.8266	1.7208		
<b>November</b>																																					
2-Nov-22	0.0055	0.0329	0.4932	0.0055	0.0219	0.0027	0.0027	0.0767	0.0712	0.0005	0.0001	580.8800	540.3280	81.6520	0.0110	0.0055	0.0164	0.0203	0.0055	0.0055	0.0219	0.0110	14.7960	1.3152	7.1240	0.0005	0.0005	264.1360	253.1760	0.0877	0.1041	0.0001	0.0001	0.0219	0.0219		
4-Nov-22																						0.0174	0.1042														
7-Nov-22	0.0165	0.0990	1.6500	0.0165	0.0825	0.0083	0.0083	0.2310	0.2145	0.0017	0.0003	1618.6500	1582.3500	235.9500	0.0165	0.0165	0.0561	0.0627	0.0165	0.0165	0.0660	0.1485	61.0500	3.9600	19.8000	0.0017	0.0017	818.4000	826.6500	0.2475	0.2475	0.0002	0.0002	0.0990	0.0825		
8-Nov-22	0.0168	0.0672	1.5114	0.0168	0.0840	0.0084	0.0084	0.2015	0.1511	0.0017	0.0003	1712.8860	1712.8860	246.8571	0.0168	0.0168	0.0470	0.0571	0.0168	0.0168	0.0672	0.0840	78.9271	4.7020	21.8309	0.0017	0.0017	827.8949	782.5538	0.2183	0.2351	0.0002	0.0002	0.0504	0.0504		
9-Nov-22	0.0166	0.1163	1.3291	0.0166	0.0997	0.0083	0.0083	0.0332	0.0332	0.0017	0.0003	1727.8560	1661.4000	237.5802	0.0332	0.0166	0.0698	0.0797	0.0166	0.0166	0.0997	0.1495	66.4560	1.6614	25.9178	0.0017	0.0017	782.5194	755.9370	0.2991	0.3489	0.0017	0.0017	0.0665	0.0665		
10-Nov-22																						0.0502	0.1171														
Average Daily Load	0.0138	0.0788	1.2459	0.0138	0.0720	0.0069	0.0069	0.1356	0.1175	0.0014	0.0003	1410.0680	1374.2410	200.5098	0.0194	0.0138	0.0473	0.0550	0.0138	0.0138	0.0537	0.1024	55.3073	2.9097	18.6682	0.0014	0.0014	673.2376	654.5792	0.2131	0.2339	0.0005	0.0005	0.0594	0.0553		
Monthly Load (kg/mo.)	0.1939	1.1037	17.4429	0.1939	1.0082	0.0969	0.0969	1.8986	1.6454	0.0194	0.0039	#####	#####	2807.1376	0.2712	0.1939	0.6627	0.7694	0.1939	0.1939	0.7521	1.4333	774.3019	40.7352	261.3546	0.0194	0.0194	9425.3261	9164.1088	2.9839	3.2747	0.0072	0.0072	0.8321	0.7744		
<b>December</b>																																					
Average Daily Load	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Monthly Load (kg/mo.)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total Annual Load kg/year</b>	<b>0.6759</b>	<b>4.0762</b>	<b>62.1410</b>	<b>0.6759</b>	<b>3.4182</b>	<b>0.3379</b>	<b>0.3379</b>	<b>10.4483</b>	<b>9.9716</b>	<b>0.0676</b>	<b>0.0135</b>	<b>#####</b>	<b>#####</b>	<b>9421.2790</b>	<b>1.0289</b>	<b>0.7347</b>	<b>2.2443</b>	<b>2.5072</b>	<b>0.7817</b>	<b>0.8875</b>	<b>2.4276</b>	<b>4.5329</b>	<b>2158.3142</b>	<b>261.5014</b>	<b>1028.6399</b>	<b>0.0676</b>	<b>0.0676</b>	<b>#####</b>	<b>#####</b>	<b>12.0130</b>	<b>12.4096</b>	<b>0.0399</b>	<b>0.0399</b>	<b>2.6588</b>	<b>2.4952</b>		

Loadings were not calculated for: Flow Rate, Field pH, Lab pH, Field Temp, Field Electrical Conductivity, Lab Electrical Conductivity, Acidity, Alkalinity, Total Hardness, Turbidity



**Table 1 - ECA 3827-CCJHRD Public Report- Section 3, Schedule F**

**B. Summary of Effluent Concentrations**

**PETP**

Concentrations																										
	Flow Rate	Field pH	Lab pH	Field Temp	Field Electrical Conductivity	Lab Electrical Conductivity	Acidity	Alkalinity	Total Hardness	Turbidity	Aluminium Dissolved	Aluminium - Total	Ammonia as N	Arsenic - Dissolved	Arsenic - Total	Beryllium - Dissolved	Beryllium - Total	Boron - Dissolved	Boron - Total	Cadmium - Dissolved	Cadmium - Total	Calcium - Dissolved	Calcium - Total	Chloride		
	m <sup>3</sup> /day	pH unit	pH unit	Deg C	(umhos/cm)	(umhos/cm)	mg/L CaCO <sub>3</sub>	CaCO <sub>3</sub> (mg/L)	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
<b>Quarter 1</b>																										
<b>January</b>	No. Days Discharged 0																									
Average	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		
Minimum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		
Maximum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		
<b>February</b>																										
	No. Days Discharged 0																									
Average	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		
Minimum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		
Maximum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		
<b>March</b>																										
	No. Days Discharged 0																									
Average	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		
Minimum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		
Maximum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		
<b>Quarter 2</b>																										
<b>April</b>	No. Days Discharged 0																									
Average	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		
Minimum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		
Maximum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		
<b>May</b>																										
	No. Days Discharged 0																									
Average	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		
Minimum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		
Maximum	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0		













**Table 1 - ECA 3827-CCJHRD Public Report- Section 3, Schedule F**

**B. Summary of Effluent Concentrations**

**PETP**

Concentrations																								
	Flow Rate	Field pH	Lab pH	Field Temp	Field Electrical Conductivity	Lab Electrical Conductivity	Acidity	Alkalinity	Total Hardness	Turbidity	Aluminium Dissolved	Aluminium - Total	Ammonia as N	Arsenic - Dissolved	Arsenic - Total	Beryllium - Dissolved	Beryllium - Total	Boron - Dissolved	Boron - Total	Cadmium - Dissolved	Cadmium - Total	Calcium - Dissolved	Calcium - Total	Chloride
	m <sup>3</sup> /day	pH unit	pH unit	Deg C	(umhos/cm)	(umhos/cm)	mg/L CaCO <sub>3</sub>	CaCO <sub>3</sub> (mg/L)	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
24-Oct-22	17021	6.87	7.58	9.7	990	923																		
26-Oct-22	16709	6.61	7.67	9.7	970	918	12	100	471	2.1	0.001	0.004	0.07	0.001	0.005	0.0005	0.0005	0.01	0.009	0.0001	0.00002	86.7	88.8	14.4
28-Oct-22	14415	6.7	7.26	8.5	960	857																		
31-Oct-22	15134	6.67	7.66	8.4	980	920																		
<b>Average</b>	15662	6.74	7.64	10.8	933	911	11	101	450	2.1	0.001	0.006	0.096	0.001	0.005	0.0005	0.0005	0.018	0.017	0.0001	0.00002	95.5	98.4	13.7
<b>Minimum</b>	9490	6.26	7.26	8.4	840	857	6	100	438	1.6	0.001	0.004	0.070	0.001	0.005	0.0005	0.0005	0.010	0.009	0.0001	0.00002	86.7	88.8	13.3
<b>Maximum</b>	18752	7.00	7.98	16.5	1090	933	17	104	471	2.3	0.001	0.009	0.130	0.001	0.005	0.0005	0.0005	0.023	0.025	0.0001	0.00002	99.6	106.0	14.4
<b>November No. Days Discharged</b>	<b>14</b>																							
2-Nov-22	5480	6.83	7.75	8.2	1040	937	5	54	445	0.7	0.001	0.006	0.09	0.001	0.004	0.0005	0.0005	0.014	0.013	0.0001	0.00002	106	98.6	14.9
4-Nov-22	17365	6.58	7.74	9.4	980	902																		
7-Nov-22	16500	6.75	7.63	6.1	990	885	7	102	431	1.6	0.001	0.006	0.1	0.001	0.005	0.0005	0.0005	0.014	0.013	0.0001	0.00002	98.1	95.9	14.3
8-Nov-22	16793	6.75	7.69	6.6		904	8	107	463	1.7	0.001	0.004	0.09	0.001	0.005	0.0005	0.0005	0.012	0.009	0.0001	0.00002	102	102	14.7
9-Nov-22	16614	6.7	7.69	6.8	1010	901	8	103	485	1.9	0.001	0.007	0.08	0.001	0.006	0.0005	0.0005	0.002	0.002	0.0001	0.00002	104	100	14.3
10-Nov-22	16730	6.63	7.46	8.3	1010	915																		
<b>Average</b>	14914	6.71	7.66	7.6	1006	907	7	92	456	1.5	0.001	0.006	0.090	0.001	0.005	0.0005	0.0005	0.011	0.009	0.0001	0.00002	102.5	99.1	14.6
<b>Minimum</b>	5480	6.58	7.46	6.1	980	885	5	54	431	0.7	0.001	0.004	0.080	0.001	0.004	0.0005	0.0005	0.002	0.002	0.0001	0.00002	98.1	95.9	14.3
<b>Maximum</b>	17365	6.83	7.75	9.4	1040	937	8	107	485	1.9	0.001	0.007	0.100	0.001	0.006	0.0005	0.0005	0.014	0.013	0.0001	0.00002	106.0	102.0	14.9
<b>December No. Days Discharged</b>	<b>0</b>																							
<b>Average</b>	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0
<b>Minimum</b>	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0
<b>Maximum</b>	0	0.00	0.00	0.0	0	0	0	0	0	0.0	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.0000	0.00000	0.0	0.0	0.0

Notes: *Less than MDL*

**Table 1 -**

**B. Summ**

**PETP**

Concentration	Chromium - Dissolved	Chromium - Total	Cobalt - Dissolved	Cobalt - Total	Copper - Dissolved	Copper - Total	Cyanide - Free	Cyanide - Total	Dissolved Organic Carbon	Iron - Dissolved	Iron - Total	Lead - Dissolved	Lead - Total	Magnesium - Dissolved	Magnesium - Total	Manganese - Dissolved	Manganese - Total	Mercury - Dissolved	Mercury - Total	Molybdenum - Dissolved	Molybdenum - Total	Nickel - Dissolved	Nickel - Total	Nitrate	Nitrite as Nitrogen		
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
							0.004	0.012																			
	0.002	0.001	0.0029	0.0031	0.001	0.001	0.005	0.005	2.5	0.29	1.4	0.0001	0.0001	43.2	41	0.015	0.015	0.0001	0.0001	0.002	0.002	0.041	0.042	1.13	0.05		
							0.004	0.006																			
							0.005	0.004																			
Average	0.002	0.001	0.0033	0.0036	0.001	0.001	0.003	0.006	2.8	0.5	1.6	0.0001	0.0001	46.5	45.1	0.019	0.019	0.0001	0.0001	0.004	0.004	0.041	0.043	1.00	0.05		
Minimum	0.001	0.001	0.0027	0.0031	0.001	0.001	0.001	0.002	2.3	0.3	1.4	0.0001	0.0001	43.2	41.0	0.015	0.015	0.0000	0.0000	0.002	0.002	0.032	0.035	0.94	0.05		
Maximum	0.002	0.002	0.0044	0.0048	0.002	0.003	0.005	0.012	4.1	0.9	2.1	0.0001	0.0001	48.2	47.7	0.023	0.024	0.0001	0.0001	0.005	0.004	0.049	0.051	1.13	0.05		
<b>November</b>																											
	0.002	0.001	0.003	0.0037	0.001	0.001	0.004	0.002	2.7	0.24	1.3	0.0001	0.0001	48.2	46.2	0.016	0.019	0.00001	0.00001	0.004	0.004	0.037	0.042	1.19	0.05		
							0.001	0.006																			
	0.001	0.001	0.0034	0.0038	0.001	0.001	0.004	0.009	3.7	0.24	1.2	0.0001	0.0001	49.6	50.1	0.015	0.015	0.00001	0.00001	0.006	0.005	0.048	0.052	1.15	0.05		
	0.001	0.001	0.0028	0.0034	0.001	0.001	0.004	0.005	4.7	0.28	1.3	0.0001	0.0001	49.3	46.6	0.013	0.014	0.00001	0.00001	0.003	0.003	0.046	0.051	1.18	0.05		
	0.002	0.001	0.0042	0.0048	0.001	0.001	0.006	0.009	4	0.1	1.56	0.0001	0.0001	47.1	45.5	0.018	0.021	0.0001	0.0001	0.004	0.004	0.056	0.064	1.11	0.05		
							0.003	0.007																			
Average	0.002	0.001	0.0034	0.0039	0.001	0.001	0.004	0.006	3.8	0.2	1.3	0.0001	0.0001	48.6	47.1	0.016	0.017	0.0000	0.0000	0.004	0.004	0.047	0.052	1.16	0.05		
Minimum	0.001	0.001	0.0028	0.0034	0.001	0.001	0.001	0.002	2.7	0.1	1.2	0.0001	0.0001	47.1	45.5	0.013	0.014	0.0000	0.0000	0.003	0.003	0.037	0.042	1.11	0.05		
Maximum	0.002	0.001	0.0042	0.0048	0.001	0.001	0.006	0.009	4.7	0.3	1.6	0.0001	0.0001	49.6	50.1	0.018	0.021	0.0001	0.0001	0.006	0.005	0.056	0.064	1.19	0.05		
<b>December</b>																											
Average	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00		
Minimum	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00		
Maximum	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.00	0.00		

Notes:

**Table 1 -**

**B. Summ**

**PETP**

Concentra	Phosphorus - Total	Potassium - Dissolved	Potassium - Total	Selenium - Dissolved	Selenium - Total	Silver - Dissolved	Silver - Total	Sodium - Dissolved	Sodium - Total	Sulphate	Suspended Solids Total	Thallium - Dissolved	Thallium - Total	Total Dissolved Solids	Total Organic Carbon	Un-Ionized Ammonia	Uranium - Dissolved	Uranium - Total	Vanadium - Dissolved	Vanadium - Total	Zinc - Dissolved	Zinc - Total
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
											3.3											
	0.002	3.4	3.1	0.0005	0.0006	0.0001	0.0001	17.8	17.2	389	2.3	0.0001	0.0001	570	2	0.002	0.001	0.001	0.001	0.002	0.001	0.002
											2.7											
											2.7											
Average	0.005	3.5	3.3	0.0009	0.0009	0.0001	0.0001	20.3	19.6	390	2.7	0.0001	0.0001	662	2.6	0.002	0.001	0.001	0.001	0.003	0.002	0.003
Minimum	0.002	3.4	3.1	0.0005	0.0006	0.0001	0.0001	17.8	17.2	384	1.7	0.0001	0.0001	570	2.0	0.002	0.001	0.001	0.001	0.002	0.001	0.002
Maximum	0.008	3.6	3.5	0.0014	0.0012	0.0001	0.0001	23.3	23.0	399	3.3	0.0001	0.0001	715	3.3	0.002	0.001	0.001	0.001	0.003	0.004	0.005
<b>November</b>																						
	0.002	7	6.6	0.0013	0.0014	0.0007	0.0001	23.2	22.7	393	2.7	0.0001	0.0001	740	2.6	0.002	0.001	0.001	0.001	0.002	0.001	0.003
											3.3											
	0.002	5.4	5.4	0.0007	0.0007	0.0001	0.0001	21.6	22	373	2.3	0.0001	0.0001	665	2.9	0.002	0.001	0.001	0.001	0.002	0.003	0.004
	0.002	5.4	5	0.0008	0.0008	0.0001	0.0001	22.4	20.8	384	3	0.0001	0.0001	710	2.9	0.002	0.001	0.001	0.001	0.002	0.002	0.004
	0.101	5.4	5	0.0009	0.0007	0.0001	0.0001	19	18.7	371	2.3	0.0001	0.0001	720	2.1	0.002	0.001	0.002	0.001	0.003	0.003	0.004
											1.7											
Average	0.027	5.8	5.5	0.0009	0.0009	0.0003	0.0001	21.6	21.1	380	2.6	0.0001	0.0001	709	2.6	0.002	0.001	0.001	0.001	0.002	0.002	0.004
Minimum	0.002	5.4	5.0	0.0007	0.0007	0.0001	0.0001	19.0	18.7	371	1.7	0.0001	0.0001	665	2.1	0.002	0.001	0.001	0.001	0.002	0.001	0.003
Maximum	0.101	7.0	6.6	0.0013	0.0014	0.0007	0.0001	23.2	22.7	393	3.3	0.0001	0.0001	740	2.9	0.002	0.001	0.002	0.001	0.003	0.003	0.004
<b>December</b>																						
Average	0.000	0.0	0.0	0.0000	0.0000	0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Minimum	0.000	0.0	0.0	0.0000	0.0000	0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Maximum	0.000	0.0	0.0	0.0000	0.0000	0.0000	0.0000	0.0	0.0	0	0.0	0.0000	0.0000	0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Notes:

### C. Summary of monitoring performed under Condition 8

- 1) All samples were collected as per requirements of Condition 8 at appropriate intervals (Thrice Weekly, Weekly, Monthly Quarterly, Semi-Annual).
- 2) Samples were not collected if effluent was not being discharged
- 3) Methods and protocols for sampling a, analysis and recording conformed to the methods specified in the ECA
- 4) There was not 12 consecutive months of discharge, acute toxicity testing was performed monthly
- 5) No changes were made to acute toxicity testing
- 6) Water, benthosm sediment, fish, toxicity testing and sampling was done in accordance with the "Pamour Mine Surface Water Monitoring Program". Summary of toxicity sampling below.

**Results**

Date	Rainbow Trout	Daphnia Magna	Ceriodaphnia Dubia		Fathead Minnow
	% mortality @ 100% Conc		Reproduction	Survival	Growth
5-Oct-22	0%	3%	30.7%	>100	>100
7-Nov-22	0%	3%	5.2%	20.4%	>100

- 7) Daily effluent volumes can be found in Table 1.
- 8) A flow meter calibration was performed by a Licensed Engineering Practitioner during the reporting year. The flow meter and flow measuring device was found to be within +/- 15%.
- 9) No alterations were made to the flow measurement unit or method.
- 10) Flow measurement systems have been integrated into a maintenance schedule.
- 11) Flow measurement systems are accessible onsite if required
- 12) Records are retained under ECA 3827-CCJHRD for at least 5 years.

### D. Summary of Results that exceeded a Limit

There were no exceedances of the limits prescribed in Schedule B.