

Annex F2

Surface Water Quality Monitoring Results

Table F2.1 Surface Water Monitoring Results

		Limit Level	DP4	DP4(Duplicate)	Additional Monitoring (DP4)	Additional Monitoring (DP4(Duplicate))
			4 Aug 23	4 Aug 23	15 Aug 23	15 Aug 23
On-site Measurement						
pH Value	pH Unit	6 - 9	8.2	8.6	7.36	7.92
Electrical Conductivity	µS/cm	-	763	764	360	345
Dissolved Oxygen	mg/L	-	57.4	46.3	6.75	6.39
Volume Discharge	m ³	-	1,360	1,360	1,558	1,558
Laboratory Analysis						
Bicarbonate	mg/L	-	39	36	-	-
Carbonate	mg/L	-	<1	2	-	-
Suspended Solids (SS)	mg/L	20	57.4	46.3	12.2	12.6
Ammonia-nitrogen	mg/L	7.1	0.04	0.03	-	-
Chloride	mg/L	-	164	170	-	-
Nitrite-nitrogen	mg/L	-	0.02	0.02	-	-
Phosphate	mg/L	5	<0.01	<0.01	-	-
Sulphate	mg/L	-	76	76	-	-
Sulphide	mg/L	2.5	<0.1	<0.1	-	-
Total Kjeldahl Nitrogen(TKN)	mg/L	-	0.6	0.6	-	-
Nitrate-nitrogen	mg/L	-	0.14	0.13	-	-
Total Nitrogen(TN)	mg/L	50	0.8	0.8	-	-
Biochemical Oxygen Demand	mg/L	20	3	3	-	-
Chemical Oxygen Demand	mg/L	30	18	20	-	-
Oil & Grease	mg/L	20	<5	<5	-	-
Total Organic Carbon	mg/L	-	3	3	-	-
Boron	µg/L	1100	70	70	-	-
Calcium	mg/L	-	52.1	51.9	-	-
Mercury	µg/L	1	<0.20	<0.20	-	-
Magnesium	mg/L	-	3.4	3.4	-	-
Sodium	mg/L	-	74.1	76	-	-
Iron	mg/L	3	<0.04	<0.04	-	-
Potassium	mg/L	-	10.6	10.4	-	-
Cadmium	µg/L	1	<0.2	<0.2	-	-
Chromium	µg/L	300	<1	<1	-	-
Copper	µg/L	300	1	2	-	-
Lead	µg/L	300	<1	<1	-	-
Manganese	µg/L	-	3	9	-	-

		Limit Level	DP4	DP4(Duplicate)	Additional Monitoring (DP4)	Additional Monitoring (DP4(Duplicate))
			4 Aug 23	4 Aug 23	15 Aug 23	15 Aug 23
Nickel	µg/L	300	<1	<1	-	-
Zinc	µg/L	-	<10	13	-	-