

Annex F2

## Surface Water Quality Monitoring Results

Table F2.1 Surface Water Monitoring Results

		Limit Level (DP3)	Limit Level (DP4 & DP6)	DP3	DP4	DP6	DP4 (Duplicate)
<b>On-site Measurement</b>							
pH Value	pH Unit	6 - 9	6 - 9	8.1	7.7	7.9	7.8
Electrical Conductivity	µS/cm	-	-	531	198	282	199
Dissolved Oxygen	mg/L	-	-	8.3	7.7	7.8	8
Volume Discharge	m <sup>3</sup>	-	-	- (a)	290	64	290
<b>Laboratory Analysis</b>							
Bicarbonate	mg/L	-	-	103	35	84	35
Carbonate	mg/L	-	-	<1	<1	<1	<1
Suspended Solids (SS)	mg/L	30	20	10.5	6.1	1.8	6
Ammonia-nitrogen	mg/L	0.5	7.1	0.09	0.02	0.03	0.02
Chloride	mg/L	-	-	62	29	23	28
Nitrite-nitrogen	mg/L	-	-	0.06	0.02	<0.01	0.02
Phosphate	mg/L	5	5	<0.01	<0.01	0.01	<0.01
Sulphate	mg/L	-	-	95	21	29	22
Sulphide	mg/L	2.5	2.5	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen(TKN)	mg/L	-	-	1.5	0.2	0.2	0.2
Nitrate-nitrogen	mg/L	-	-	1.92	0.29	0.4	0.28
Total Nitrogen(TN)	mg/L	50	50	3.5	0.5	0.6	0.5
Biochemical Oxygen Demand	mg/L	20	20	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	80	30	6	3	4	2
Oil & Grease	mg/L	20	20	<5	<5	<5	<5
Total Organic Carbon	mg/L	-	-	4	2	2	1
Boron	µg/L	1100	1100	100	20	40	20
Calcium	mg/L	-	-	59.7	24	33.1	23.7
Mercury	µg/L	1	1	<0.20	<0.20	<0.20	<0.20
Magnesium	mg/L	-	-	4.55	0.98	1.87	0.98
Sodium	mg/L	-	-	34.4	11.5	10.6	10.6
Iron	mg/L	3	3	<0.04	<0.04	<0.04	<0.04
Potassium	mg/L	-	-	8.8	2.75	6.51	2.71
Cadmium	µg/L	1	1	<0.2	<0.2	<0.2	<0.2
Chromium	µg/L	300	300	2	<1	<1	<1
Copper	µg/L	300	300	2	<1	<1	<1
Lead	µg/L	300	300	<1	<1	<1	<1
Manganese	µg/L	-	-	7	4	4	4
Nickel	µg/L	300	300	<1	<1	<1	<1

		Limit Level (DP3)	Limit Level (DP4 & DP6)	DP3	DP4	DP6	DP4 (Duplicate)
Zinc	µg/L	-	-	<10	<10	<10	<10
(a) The flow meter of DP3 is under maintenance.							