



ANNEX F1

SURFACE WATER QUALITY MONITORING
RESULTS

TABLE F1.1 SURFACE WATER QUALITY MONITORING RESULTS AT DP3

Date	Time	Weather Condition	Water Appearance	Water Condition	Water Temperature (°C)	Ammoniacal-nitrogen (mg/L)	COD	Suspended Solids (SS) (mg/L)	Remarks
11 Jul 23	10:43	Sunny	Unable to collect water sample due to insufficient flow						
4 Aug 23	14:10	Sunny	Unable to collect water sample due to insufficient flow						
22 Sep 23	10:08	Sunny	Unable to collect water sample due to insufficient flow						
						Average	-	-	-
						Min	-	-	-
						Max	-	-	-

TABLE F1.2 SURFACE WATER QUALITY MONITORING RESULTS AT DP4

Date	Time	Weather Condition	Water Appearance	Water Condition	Water Temperature (°C)	Ammoniacal-nitrogen (mg/L)	COD	Suspended Solids (SS) (mg/L)	Remarks
11 Jul 23	10:47	Sunny	Unable to collect water sample due to insufficient flow						
						Average	-	-	-
						Min	-	-	-
						Max	-	-	-

TABLE F1.3 SURFACE WATER QUALITY MONITORING RESULTS AT DP6

Date	Time	Weather Condition	Water Appearance	Water Condition	Water Temperature (°C)	Ammoniacal-nitrogen (mg/L)	COD	Suspended Solids (SS) (mg/L)	Remarks
11 Jul 23	10:32	Sunny	Unable to collect water sample due to insufficient flow						
4 Aug 23	14:02	Sunny	Unable to collect water sample due to insufficient flow						
						Average	-	-	-
						Min	-	-	-
						Max	-	-	-

TABLE F1.4 SURFACE WATER MONITORING RESULTS

Date				4 Aug 23	4 Aug 23	15 Aug 23	15 Aug 23	22 Sep 23	22 Sep 23	22 Sep 23
		Limit Level (DP3)	Limit Level (DP4 & 6)	DP4	DP4 (Duplicate)	DP4	DP4 (Duplicate)	DP4	DP6	DP4 (Duplicate)
On-site Measurement										
pH Value	pH Unit	6 - 9	6 - 9	8.2	8.6	7.36	7.92	8.1	8.2	8.1
Electrical Conductivity	µS/cm	-	-	763	764	360	345	360	273	360
Dissolved Oxygen	mg/L	-	-	57.4	46.3	6.75	6.39	7.1	8.3	7.3
Volume Discharge	m ³	-	-	1,360	1,360	6.75	6.39	7.1	8.3	7.3
Laboratory Analysis										
Bicarbonate	mg/L	-	-	39	36	-	-	62	83	62
Carbonate	mg/L	-	-	<1	2	-	-	<1	<1	<1
Suspended Solids (SS)	mg/L	30	20	57.4	46.3	12.2	12.6	8.1	2.4	8.4
Ammonia-nitrogen	mg/L	0.5	7.1	0.04	0.03	-	-	0.02	0.04	0.03
Chloride	mg/L	-	-	164	170	-	-	50	22	50
Nitrite-nitrogen	mg/L	-	-	0.02	0.02	-	-	0.02	0.01	0.02
Phosphate	mg/L	5	5	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Sulphate	mg/L	-	-	76	76	-	-	36	19	36
Sulphide	mg/L	2.5	2.5	<0.1	<0.1	-	-	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen(TKN)	mg/L	-	-	0.6	0.6	-	-	0.4	0.3	0.5
Nitrate-nitrogen	mg/L	-	-	0.14	0.13	-	-	0.06	0.2	0.06
Total Nitrogen(TN)	mg/L	50	50	0.8	0.8	-	-	0.5	0.5	0.5

Biochemical Oxygen Demand	mg/L	20	20	3	3	-	-	<2	<2	<2
Chemical Oxygen Demand	mg/L	80	30	18	20	-	-	10	6	9
Oil & Grease	mg/L	20	20	<5	<5	-	-	<5	<5	<5
Total Organic Carbon	mg/L	-	-	3	3	-	-	4	3	4
Boron	µg/L	1100	1100	70	70	-	-	60	50	60
Calcium	mg/L	-	-	52.1	51.9	-	-	29.8	28.6	30.8
Mercury	µg/L	1	1	<0.20	<0.20	-	-	<0.20	<0.20	<0.20
Magnesium	mg/L	-	-	3.4	3.4	-	-	1.7	1.9	1.74
Sodium	mg/L	-	-	74.1	76	-	-	31.5	20.1	31
Iron	mg/L	3	3	<0.04	<0.04	-	-	<0.04	<0.04	<0.04
Potassium	mg/L	-	-	10.6	10.4	-	-	7.61	5.92	7.87
Cadmium	µg/L	1	1	<0.2	<0.2	-	-	<0.2	<0.2	<0.2
Chromium	µg/L	300	300	<1	<1	-	-	<1	<1	<1
Copper	µg/L	300	300	1	2	-	-	1	<1	1
Lead	µg/L	300	300	<1	<1	-	-	<1	<1	<1
Manganese	µg/L	-	-	3	9	-	-	5	3	7
Nickel	µg/L	300	300	<1	<1	-	-	<1	<1	<1
Zinc	µg/L	-	-	<10	13	-	-	86	<10	1780