



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
12 Apr 2024	09:42	Sunny	Unable to collect water sample due to insufficient flow						
12 Jun 2024	09:15	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
12 Apr 2024	09:46	Sunny	Unable to collect water sample due to insufficient flow						
6 May 2024	10:06	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
12 Apr 2024	09:52	Sunny	Unable to collect water sample due to insufficient flow						
						Average	-	-	-
						Min	-	-	-
						Max	-	-	-

TABLE F1.4 SURFACE WATER MONITORING RESULTS

Date				6 May 24	6 May 24	6 May 24	30 May 24	30 May 24	30 May 24	12 Jun 24
	Limit Level (DP3)	Limit Level (DP4 & 6)	DP3	DP6	DP6 (Duplicate)	DP3	DP6	DP3 (Duplicate)	DP4	
On-site Measurement										
pH Value	pH Unit	6 - 9	6 - 9	8.4	7.8	7.8	7.6	8.1	7.6	9.3
Electrical Conductivity	µS/cm	-	-	891	289	290	912	313	910	282
Dissolved Oxygen	mg/L	-	-	7.5	6.8	6.9	7.4	9.1	7.4	7
Volume Discharge	m ³	-	-	6340	- (a)	- (a)	2170	27	2170	1185
Laboratory Analysis										
Bicarbonate	mg/L	-	154	154	70	71	-	-	-	104
Carbonate	mg/L	-	6	6	<1	<1	-	-	-	24
Suspended Solids (SS)	mg/L	30	3.6	3.6	22	26.3	-	34.3	-	395
Ammonia-nitrogen	mg/L	0.5	1.38	1.38	0.02	0.02	0.18	-	0.16	0.12
Chloride	mg/L	-	73	73	26	25	-	-	-	28
Nitrite-nitrogen	mg/L	-	0.39	0.39	0.03	0.03	-	-	-	0.05
Phosphate	mg/L	5	0.04	0.04	0.01	<0.01	-	-	-	<0.01
Sulphate	mg/L	-	134	134	32	32	-	-	-	51
Sulphide	mg/L	2.5	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1

Total Kjeldahl Nitrogen(TKN)	mg/L	2.5	0.3	2.5	0.3	0.3	-	-	-	0.4
Nitrate-nitrogen	mg/L	2.42	0.67	2.42	0.67	0.66	-	-	-	0.52
Total Nitrogen(TN)	mg/L	5.3	1	5.3	1	1	-	-	-	0.9
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	<2	-	-	-	<2
Chemical Oxygen Demand	mg/L	16	11	16	11	10	-	-	-	7
Oil & Grease	mg/L	<5	<5	<5	<5	<5	-	-	-	<5
Total Organic Carbon	mg/L	5	2	5	2	3	-	-	-	4
Boron	µg/L	1100	1100	160	40	40	-	-	-	60
Calcium	mg/L	-	-	90	29.6	30.6	-	-	-	29.6
Mercury	µg/L	1	1	<0.20	<0.20	<0.20	-	-	-	<0.20
Magnesium	mg/L	-	-	7.97	2.26	2.33	-	-	-	1.35
Sodium	mg/L	-	-	57	17.6	19.7	-	-	-	17.6
Iron	mg/L	3	3	<0.04	<0.04	<0.04	-	-	-	<0.04
Potassium	mg/L	-	-	12.7	6.93	7.21	-	-	-	5.8
Cadmium	µg/L	1	1	<0.2	<0.2	<0.2	-	-	-	<0.2
Chromium	µg/L	300	300	2	<1	<1	-	-	-	2
Copper	µg/L	300	300	2	<1	<1	-	-	-	1
Lead	µg/L	300	300	<1	<1	<1	-	-	-	<1
Manganese	µg/L	-	-	6	2	6	-	-	-	<1

Nickel	µg/L	300	300	<1	<1	<1	-	-	-	<1
Zinc	µg/L	-	-	<10	<10	213	-	-	-	<10

Note:

(a) The flow meter of DP6 is under maintenance.

Date				12 Jun 24	12 Jun 24	12 Jun 24
	Limit Level (DP3)	Limit Level (DP4 & 6)		DP4	DP6	DP6 (Duplicate)

On-site Measurement

pH Value	pH Unit	6 - 9	6 - 9	9.3	7.9	7.9
Electrical Conductivity	µS/cm	-	-	282	278	277
Dissolved Oxygen	mg/L	-	-	7	8.3	8.3
Volume Discharge	m ³	-	-	1185	28	28

Laboratory Analysis

Bicarbonate	mg/L	-	154	104	76	75
Carbonate	mg/L	-	6	24	<1	<1
Suspended Solids (SS)	mg/L	30	3.6	395	10.6	10.1
Ammonia-nitrogen	mg/L	0.5	1.38	0.12	<0.01	<0.01
Chloride	mg/L	-	73	28	25	25
Nitrite-nitrogen	mg/L	-	0.39	0.05	<0.01	<0.01
Phosphate	mg/L	5	0.04	<0.01	<0.01	<0.01
Sulphate	mg/L	-	134	51	18	18



Sulphide	mg/L	2.5	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen(TKN)	mg/L	2.5	0.3	0.4	<0.1	<0.1
Nitrate-nitrogen	mg/L	2.42	0.67	0.52	0.26	0.26
Total Nitrogen(TN)	mg/L	5.3	1	0.9	0.3	0.3
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	16	11	7	3	3
Oil & Grease	mg/L	<5	<5	<5	<5	<5
Total Organic Carbon	mg/L	5	2	4	2	2
Boron	µg/L	1100	1100	60	50	50
Calcium	mg/L	-	-	29.6	30	29.9
Mercury	µg/L	1	1	<0.20	<0.20	<0.20
Magnesium	mg/L	-	-	1.35	1.49	1.49
Sodium	mg/L	-	-	17.6	17	17
Iron	mg/L	3	3	<0.04	<0.04	<0.04
Potassium	mg/L	-	-	5.8	6.34	6.27
Cadmium	µg/L	1	1	<0.2	<0.2	<0.2
Chromium	µg/L	300	300	2	<1	<1
Copper	µg/L	300	300	1	<1	<1
Lead	µg/L	300	300	<1	<1	<1
Manganese	µg/L	-	-	<1	5	4

Nickel	µg/L	300	300	<1	<1	<1
Zinc	µg/L	-	-	<10	<10	<10