

Annex F1

Surface Water Quality Monitoring Results

Table F1.1 Surface Water Quality Monitoring Results at DP4T (During Construction Phase)

Date	Time	Weather Condition	Water Appearance	Water Condition	Water Temperature (°C)	Dissolved Oxygen (DO) (mg/L)	pH	Suspended Solids (SS) (mg/L)	Remarks	
7 Jan 21	14:32	Sunny		Unable to collect water sample due to insufficient flow						-
14 Jan 21	14:30	Sunny		Unable to collect water sample due to insufficient flow						-
20 Jan 21	14:28	Sunny		Unable to collect water sample due to insufficient flow						-
28 Jan 21	14:20	Sunny		Unable to collect water sample due to insufficient flow						-
4 Feb 21	14:19	Sunny		Unable to collect water sample due to insufficient flow						-
9 Feb 21	14:23	Cloudy		Unable to collect water sample due to insufficient flow						-
17 Feb 21	14:14	Sunny		Unable to collect water sample due to insufficient flow						-
25 Feb 21	14:40	Cloudy	Light yellow	Semi clear	20.3	8.09	7.58	13.0	-	
25 Feb 21	14:53	Cloudy	Light yellow	Semi clear	20.5	8.07	7.65	12.7	DP4 (Future, temporary) (Duplicate)	
4 Mar 21	14:24	Rainy		Unable to collect water sample due to insufficient flow						-
11 Mar 21	14:23	Sunny		Unable to collect water sample due to insufficient flow						-
18 Mar 21	14:26	Sunny		Unable to collect water sample due to insufficient flow						-
25 Mar 21	14:25	Sunny		Unable to collect water sample due to insufficient flow						-
1 Apr 21	14:28	Sunny		Unable to collect water sample due to insufficient flow						-
8 Apr 21	14:39	Cloudy		Unable to collect water sample due to insufficient flow						-
15 Apr 21	14:22	Rainy		Unable to collect water sample due to insufficient flow						-
22 Apr 21	14:28	Sunny		Unable to collect water sample due to insufficient flow						-
29 Apr 21	14:36	Sunny		Unable to collect water sample due to insufficient flow						-
6 May 21	14:30	Sunny		Unable to collect water sample due to insufficient flow						-
13 May 21	14:27	Sunny		Unable to collect water sample due to insufficient flow						-
20 May 21	14:33	Sunny		Unable to collect water sample due to insufficient flow						-
27 May 21	11:58	Sunny		Unable to collect water sample due to insufficient flow						-
3 Jun 21	14:23	Sunny	Light yellow	Semi clear	28.3	7.28	8.84	32.3	-	
3 Jun 21	14:26	Sunny	Light yellow	Semi clear	28.3	7.34	8.82	-	DP4T (Remeasurement)	
3 Jun 21	14:35	Sunny	Light yellow	Semi clear	28.4	7.29	8.82	32.0	DP4T (Duplicate)	
3 Jun 21	14:38	Sunny	Light yellow	Semi clear	28.3	7.35	8.82	-	DP4T (Duplicate) (Remeasurement)	
10 Jun 21	14:29	Sunny	Light yellow	Semi clear	29.5	8.06	8.61	10.6	-	
10 Jun 21	14:30	Sunny	Light yellow	Semi clear	29.3	8.06	8.61	-	DP4T (Remeasurement)	
10 Jun 21	14:37	Sunny	Light yellow	Semi clear	29.4	8.06	8.58	10.2	DP4T (Duplicate)	
10 Jun 21	14:39	Sunny	Light yellow	Semi clear	29.4	7.99	8.56	-	DP4T (Duplicate) (Remeasurement)	
17 Jun 21	14:36	Sunny	Light yellow	Semi clear	29.9	7.80	8.48	7.1	-	
17 Jun 21	14:38	Sunny	Light yellow	Semi clear	29.8	7.85	8.50	-	DP4T (Remeasurement)	
17 Jun 21	14:45	Sunny	Light yellow	Semi clear	29.8	7.79	8.50	7.2	DP4T (Duplicate)	
17 Jun 21	14:49	Sunny	Light yellow	Semi clear	29.7	7.79	8.47	-	DP4T (Duplicate) (Remeasurement)	

Date	Time	Weather Condition	Water Appearance	Water Condition	Water Temperature (°C)	Dissolved Oxygen (DO) (mg/L)	pH	Suspended Solids (SS) (mg/L)	Remarks
24 Jun 21	15:50	Rainy							Unable to collect water sample due to insufficient flow
30 Jun 21	14:26	Sunny							Unable to collect water sample due to insufficient flow
8 Jul 21	14:29	Sunny							Unable to collect water sample due to insufficient flow
15 Jul 21	14:39	Sunny	Light yellow	Semi clear	30.6	7.67	8.54	2.6	-
15 Jul 21	14:40	Sunny	Light yellow	Semi clear	30.7	7.64	8.52	-	DP4T (Remeasurement)
15 Jul 21	14:48	Sunny	Light yellow	Semi clear	30.9	7.65	8.65	2.5	DP4T (Duplicate)
15 Jul 21	14:49	Sunny	Light yellow	Semi clear	30.8	7.66	8.62	-	DP4T (Duplicate) (Remeasurement)
22 Jul 21	14:26	Sunny							Unable to collect water sample due to insufficient flow
29 Jul 21	15:00	Cloudy							Unable to collect water sample due to insufficient flow
5 Aug 21	14:25	Rainy							Unable to collect water sample due to insufficient flow
12 Aug 21	14:24	Rainy							Unable to collect water sample due to insufficient flow
19 Aug 21	14:28	Sunny							Unable to collect water sample due to insufficient flow
26 Aug 21	14:18	Sunny							Unable to collect water sample due to insufficient flow
2 Sep 21	14:29	Sunny							Unable to collect water sample due to insufficient flow
9 Sep 21	14:29	Sunny							Unable to collect water sample due to insufficient flow
16 Sep 21	15:30	Rainy							Unable to collect water sample due to insufficient flow
23 Sep 21	14:45	Sunny							Unable to collect water sample due to insufficient flow
30 Sep 21	14:26	Sunny							Unable to collect water sample due to insufficient flow
7 Oct 21	14:23	Sunny							Unable to collect water sample due to insufficient flow
15 Oct 21	10:39	Rainy							Unable to collect water sample due to insufficient flow
21 Oct 21	14:48	Cloudy							Unable to collect water sample due to insufficient flow
28 Oct 21	14:25	Sunny							Unable to collect water sample due to insufficient flow
4 Nov 21	14:18	Sunny							Unable to collect water sample due to insufficient flow
11 Nov 21	14:18	Sunny	Light yellow	Semi clear	19.7	9.19	8.32	8.6	-
11 Nov 21	14:38	Sunny	Light yellow	Semi clear	19.3	9.21	7.96	8.7	DP4T (Duplicate)
18 Nov 21	15:20	Sunny							Unable to collect water sample due to insufficient flow
					Average	8.02	8.37	12.3	-
					Min	7.31	7.58	2.5	-
					Max	9.21	8.83	32.3	-

Notes: DP4 was temporary relocated to DP4 (Future, temporary) (i.e. DP4T) as an interim discharge point from the monitoring event on 16 May 2019.

Table F1.2 Surface Water Quality Monitoring Results at DP4T (During Operation Phase)

Date	Time	Weather Condition	Water Appearance	Water Condition	Water Temperature (oC)	Ammoniacal-nitrogen (mg/L)	COD	Suspended Solids (SS) (mg/L)	Remarks
25 Nov 21	15:33	Sunny		Unable to collect water sample due to insufficient flow					-
28 Dec 21	10:46	Sunny		Unable to collect water sample due to insufficient flow					-
					Average	-	-	-	-
					Min	-	-	-	-
					Max	-	-	-	-

Notes: DP4 was temporary relocated to DP4 (Future, temporary) (i.e. DP4T) as an interim discharge point from the monitoring event on 16 May 2019.

Table F1.3 Surface Water Quality Monitoring Results at DP6 (During Construction Phase)

Date	Time	Weather Condition	Water Appearance	Water Condition	Water Temperature (oC)	Dissolved Oxygen (DO) (mg/L)	pH	Suspended Solids (SS) (mg/L)	Remarks
7 Jan 21	14:19	Sunny		Unable to collect water sample due to insufficient flow					-
14 Jan 21	14:16	Sunny		Unable to collect water sample due to insufficient flow					-
20 Jan 21	14:13	Sunny		Unable to collect water sample due to insufficient flow					-
28 Jan 21	14:07	Sunny		Unable to collect water sample due to insufficient flow					-
4 Feb 21	14:09	Sunny		Unable to collect water sample due to insufficient flow					-
9 Feb 21	14:10	Cloudy		Unable to collect water sample due to insufficient flow					-
17 Feb 21	14:05	Sunny		Unable to collect water sample due to insufficient flow					-
25 Feb 21	14:16	Cloudy		Unable to collect water sample due to insufficient flow					-
4 Mar 21	14:08	Rainy		Unable to collect water sample due to insufficient flow					-
11 Mar 21	14:07	Sunny		Unable to collect water sample due to insufficient flow					-
18 Mar 21	14:09	Sunny		Unable to collect water sample due to insufficient flow					-
25 Mar 21	14:06	Sunny		Unable to collect water sample due to insufficient flow					-
1 Apr 21	14:09	Sunny		Unable to collect water sample due to insufficient flow					-
8 Apr 21	14:23	Cloudy		Unable to collect water sample due to insufficient flow					-
15 Apr 21	14:08	Rainy		Unable to collect water sample due to insufficient flow					-
22 Apr 21	14:09	Sunny		Unable to collect water sample due to insufficient flow					-
29 Apr 21	14:27	Sunny		Unable to collect water sample due to insufficient flow					-
6 May 21	14:12	Sunny		Unable to collect water sample due to insufficient flow					-
13 May 21	14:09	Sunny		Unable to collect water sample due to insufficient flow					-
20 May 21	14:09	Sunny		Unable to collect water sample due to insufficient flow					-

Date	Time	Weather Condition	Water Appearance	Water Condition	Water Temperature (°C)	Dissolved Oxygen (DO) (mg/L)	pH	Suspended Solids (SS) (mg/L)	Remarks
27 May 21	11:43	Sunny							Unable to collect water sample due to insufficient flow
3 Jun 21	14:09	Sunny							Unable to collect water sample due to insufficient flow
10 Jun 21	14:09	Sunny							Unable to collect water sample due to insufficient flow
17 Jun 21	15:05	Sunny							Unable to collect water sample due to insufficient flow
24 Jun 21	15:14	Rainy	Light yellow	Semi clear	26.0	7.83	9.17	83.6	-
24 Jun 21	15:16	Rainy	Light yellow	Semi clear	26.1	7.83	9.17	-	DP6 (Remeasurement)
24 Jun 21	15:24	Rainy	Light yellow	Semi clear	26.1	7.81	9.17	79.8	DP6 (Duplicate)
24 Jun 21	15:26	Rainy	Light yellow	Semi clear	26.1	7.85	9.15	-	DP6 (Duplicate) (Remeasurement)
30 Jun 21	14:08	Sunny							Unable to collect water sample due to insufficient flow
8 Jul 21	14:10	Sunny							Unable to collect water sample due to insufficient flow
15 Jul 21	14:08	Sunny							Unable to collect water sample due to insufficient flow
22 Jul 21	14:10	Sunny							Unable to collect water sample due to insufficient flow
29 Jul 21	14:24	Cloudy	Light yellow	Semi clear	29.4	5.01	7.57	123	-
29 Jul 21	14:35	Cloudy	Light yellow	Semi clear	29.7	5.35	7.56	-	DP6 (Remeasurement)
29 Jul 21	14:45	Cloudy	Light yellow	Semi clear	29.8	5.57	8.04	120	DP6 (Duplicate)
29 Jul 21	14:50	Cloudy	Light yellow	Semi clear	29.8	5.50	7.91	-	DP6 (Duplicate) (Remeasurement)
5 Aug 21	14:15	Rainy							Unable to collect water sample due to insufficient flow
12 Aug 21	14:13	Rainy							Unable to collect water sample due to insufficient flow
19 Aug 21	14:14	Sunny							Unable to collect water sample due to insufficient flow
26 Aug 21	14:08	Sunny							Unable to collect water sample due to insufficient flow
2 Sep 21	14:08	Sunny							Unable to collect water sample due to insufficient flow
9 Sep 21	14:12	Sunny							Unable to collect water sample due to insufficient flow
16 Sep 21	15:18	Rainy							Unable to collect water sample due to insufficient flow
23 Sep 21	14:30	Sunny							Unable to collect water sample due to insufficient flow
30 Sep 21	14:10	Sunny							Unable to collect water sample due to insufficient flow
7 Oct 21	14:08	Sunny							Unable to collect water sample due to insufficient flow
15 Oct 21	11:02	Rainy							Unable to collect water sample due to insufficient flow
21 Oct 21	14:42	Cloudy							Unable to collect water sample due to insufficient flow
28 Oct 21	14:16	Sunny							Unable to collect water sample due to insufficient flow
4 Nov 21	14:00	Sunny							Unable to collect water sample due to insufficient flow
11 Nov 21	14:10	Sunny							Unable to collect water sample due to insufficient flow
18 Nov 21	15:16	Sunny							Unable to collect water sample due to insufficient flow
					Average	6.59	8.47	101.6	-
					Min	5.18	7.57	79.8	-
					Max	7.83	9.17	123	-

Table F1.4 Surface Water Quality Monitoring Results at DP6 (During Operation Phase)

Date	Time	Weather Condition	Water Appearance	Water Condition	Water Temperature (oC)	Ammoniacal-nitrogen (mg/L)	COD	Suspended Solids (SS) (mg/L)	Remarks	
25 Nov 21	15:17	Sunny		Unable to collect water sample due to insufficient flow						-
28 Dec 21	10:42	Sunny		Unable to collect water sample due to insufficient flow						-
Average						-	-	-	-	
Min						-	-	-	-	
Max						-	-	-	-	

Figure F1.1 Graphical Presentation for Surface Water Quality Monitoring (DO) (During Construction Phase)

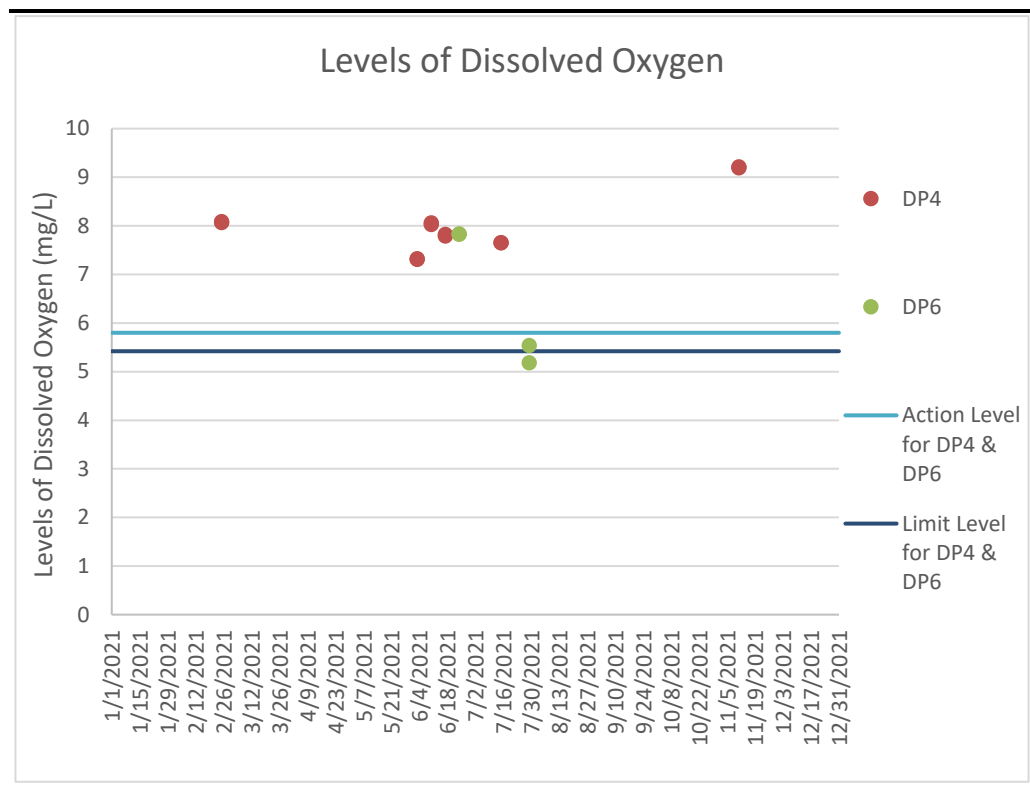


Figure F1.2 Graphical Presentation for Surface Water Quality Monitoring (pH) (During Construction Phase)

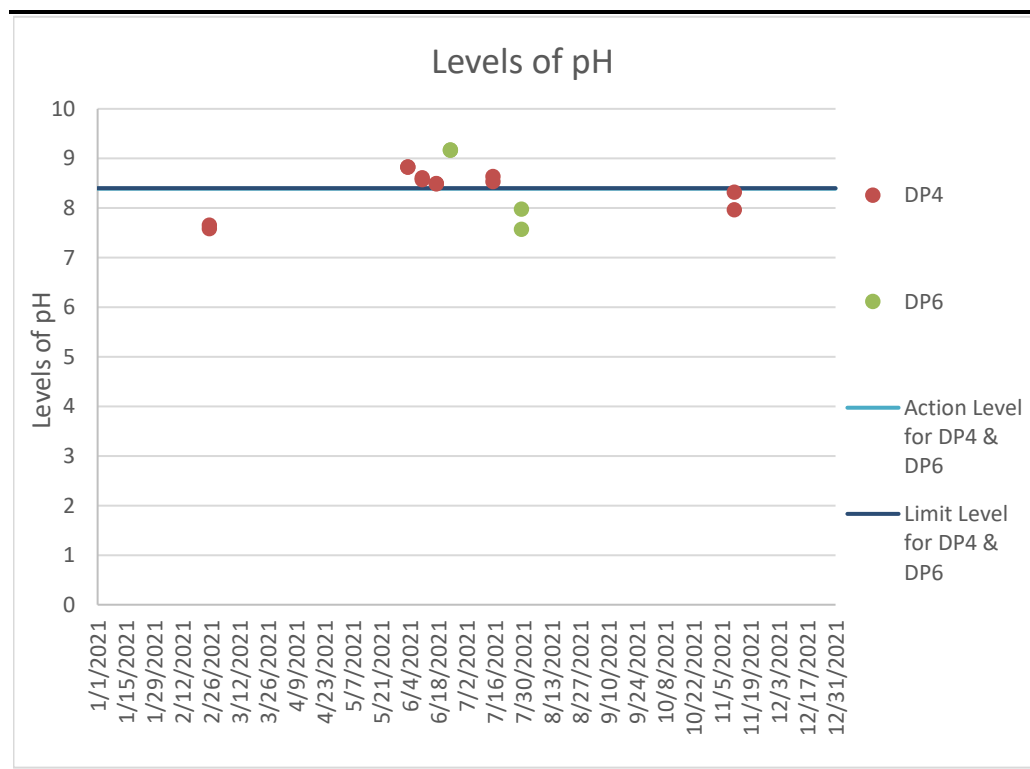


Figure F1.3 Graphical Presentation for Surface Water Quality Monitoring (SS) (During Construction Phase)

