



Your Ref: EAWML30058 DP3733BK
 Our Ref: 14739/075/CBH/RHT/VKR/AREA 1 AND 2 SW

6th April 2020

PPC Team
 Natural Resources Wales
 Rivers House
 Fortrain Road
 St Mellons Business Park
 Cardiff
 CF3 0EY

Attention of: David Griffiths

Dear David,

Re: EAWML30058 AND DP3733BK - DOCKSWAY DISPOSAL SITE. LATEST AREA 1 AND 2 SURFACE WATER MONITORING RESULTS, ROUNDS 191 to 193

We write to provide details of the results of surface water monitoring undertaken at Docksway Disposal site in January 2020, February 2020 and March 2020 (Rounds 191, 192 and 193 respectively).

With this letter report we enclose summary tables giving field observations and selected field test results for each of the surface water positions. The analytical certificates for the laboratory testing carried out during rounds R191 to R193 are included with this report.

Surface water sampling was carried out at six locations during Rounds 191 to 193 (see Table 1).

Table 1 Details of Locations Sampled During Rounds 191 to 193

Position Monitored (Round)	Location
SW1A (R191, R192, R193)	River Ebbw Upstream
SW23 (R191, R192, R193)	Discharge to Maes Glas Pill from Docks Drain Outfall (Disused Culvert)
SW24 (R191, R192, R193)	Oxbow Lake Position 1
SW25 (R191, R192, R193)	Area 1 SW
SW26 (R191, R192, R193)	Area 2 SW
C3_Asb (R191, R192, R193)	Cell 3 settling lagoon

SW02 and SW7 were recorded as 'N/A' during R188 and unsafe during R189 and R190.

Surface Water Quality Assessment

Table(s) 2 (a, b and c) show selected testing results for Rounds 191, 192 and 193. There are no compliance limits set for surface water and therefore there is no commentary regarding the results.

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Table 2a Testing Results Summary for Round 191

Monitoring Location	Field Temperature (°C)	Lab pH	Ammoniacal Nitrogen (mg/l)	Field Dissolved Oxygen (%)	BOD (mg/l)	Suspended Solids (mg/l)	Chemical Oxygen Demand (mg/l)
SW1A	8.47	7.68	<0.2	94.2	1.86	8.25	<7
SW23	9.78	8.16	4.93	70.4	1.53	16	22.1
SW24	7.77	8.07	<0.2	85	1.1	4.55	22.3
SW25	8.46	8.06	0.827	77.6	1.58	21.5	47.5
SW26	7.94	7.92	4.28	53.1	1.05	<2	25.2
C3_Asb	7.87	8.28	2.58	79.1	2.48	12.8	122

Table 3b Testing Results Summary for Round 192

Monitoring Location	Field Temperature (°C)	Lab pH	Ammoniacal Nitrogen (mg/l)	Field Dissolved Oxygen (%)	BOD (mg/l)	Suspended Solids (mg/l)	Chemical Oxygen Demand (mg/l)
SW1A	6.92			94.8			
SW23	9.08			59.7			
SW24	6.64			93			
SW25	8.47	7.84	2.81	78.9	6.04	79.7	76.9
SW26	8.51	7.92	0.919	71.9	<1	21.3	22.4
C3_Asb	7.16			108.8			

Table 4c Testing Results Summary for Round 193

Monitoring Location	Field Temperature (°C)	Lab pH	Ammoniacal Nitrogen (mg/l)	Field Dissolved Oxygen (%)	BOD (mg/l)	Suspended Solids (mg/l)	Chemical Oxygen Demand (mg/l)
SW1A	7.99	7.68	<0.2	93.1	1.46	3.35	10.8
SW23	8.26	7.99	11.1	62.2	2.75	46.8	31.1
SW24	6.51	8.26	<0.2	91.5	2.97	4.1	22.9
SW25	7.16	8.09	21.6	84.3	24.2	99.7	137
SW26	5.95	7.88	7.5	53.3	10.4	8.6	81.3
C3_Asb	7.19	7.93	21	69.4	22.1	19.6	125

N/R = Not Required

There was no sheen noted by the field operative during sampling at C3_Asb for the three monitoring rounds.

The presence/absence of asbestos fibres in the sample from C3_Asb during the three monitoring rounds has not been tested as the laboratory has ceased providing this test and an alternative is being sought.

Samples were not obtained from SW1A, SW23, SW24 or C3_Asb during Round 192 (Feb 2020).

The surface water quality at SW26 has met the specific requirements of the discharge consent during R191 to R193 for the parameters tested.

The surface water quality at SW25 has met the specific requirements of the discharge consent during R191 to R193 for the parameters tested, with the exception of total suspended solids, which exceeded the discharge consent limit of 60mg/l during R192 (79.7mg/l) and R193 (99.7mg/l).

The surface water quality within C3_Asb was within the permit limits during R191 and R193 (not sampled during R192) for the parameters tested, with the exception of Chemical Oxygen Demand (COD) and Ammoniacal Nitrogen. During R191 the COD concentration was recorded as 122mg/l, and during R193 the concentration was recorded as 125mg/l, which are both marginally above the limit of 120mg/l. The concentration of Ammoniacal Nitrogen exceeded the permit limit (5mg/l) in R193 at 21mg/l.

Concluding Remarks

Newport City Council (NCC) will continue to monitor the surface water quality on and around Docksway Disposal Site in accordance with the aftercare monitoring plan for Area 1, the Environmental Permit, and in accordance with the relevant discharge consent limits. Stantec will continue to provide comment on water quality with reference to point source emission limits to water (Table S3.2 of the Permit), and discharge consent limits within subsequent reports.

If you have any questions regarding the investigations carried out or the data herein, then please do not hesitate to contact us.

Yours sincerely



Kate Riley
Associate
on behalf of Stantec UK Ltd

Encs – Laboratory Certificates

CC – Silvia Gonzalez-Lopez – Newport City Council
Robert Hughes – NCC (Docksway Disposal Site)