

Your ref: EAWML30058 DP3733BK

Our ref: 14739/075/CBH/RHT/VKR/AREA 1 AND 2 SW



27 June 2017

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Attn: David Willey and Damien Downes (Monmouth)

Dear David and Damien

RE: EAWML30058 AND DP3733BK - DOCKSWAY DISPOSAL SITE. LATEST AREA 1 AND 2 SURFACE WATER MONITORING RESULTS, ROUNDS 155-159.

We write to provide details of the results of the latest rounds of surface water monitoring undertaken at Docksway Disposal site (January 2017 to May 2017, Rounds 155 to 159).

With this letter report we enclose summary tables giving field observations and selected field test results for each of the surface water positions. The positions were monitored on the 1st January 2017, 2nd February 2017, 3rd March 2017, 4th April 2017, and 5th May 2017. Laboratory results for sampling location SWAsb were recorded as C3Asb for rounds 157-159, but are the same location.

Surface water monitoring and sampling was carried out at five locations during Round 155, six locations during round 156, and four locations during rounds 157-159 (see Table 1).

Table 1 – Details of Locations Sampled During Rounds 155-159.

Position Monitored	Location	Rounds Monitored
SW1A	River Ebbw Upstream	R155, R156, R157, R158, R159
SW23	Discharge to Maes Glas Pill from Docks Drain Outfall (Disused Culvert)	R155, R156, R157, R158, R159
SW24	Oxbow Lake Position 1	R155, R156, R157, R158, R159
SW25	River Ebbw above Cut Off Wall	R155, R156
SW26	River Ebbw by Area 2 Cell 1	R155, R156
SWAsb		R156, R157, R158, R159

SW02 (River Ebbw Downstream) is not being monitored due to safety issues with access. SW7 recorded as dry/no access throughout. SW25 and SW26 (Area 1 and 2 SW) recorded as dry in rounds 157-159.

Surface Water Quality Assessment

Table 2a-e shows selected testing results for Rounds 155-159. There are no compliance limits set for surface water and therefore there is no commentary regarding the results. The two surface water discharge locations were recorded as dry during Rounds 157 to 159 and therefore no samples were obtained and there is no commentary regarding discharge consent limits.

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Table 2a –Testing Results Summary for Round 155

Monitoring Location	Field Temperature (°C)	Field pH	Ammoniacal Nitrogen Concentration (mg/l)	Field Dissolved Oxygen (%)	BOD (mg/l)	Suspended Solids, Total (mg/l)
SW24	5.88	7.97	<0.2	84.80	9.56	N/A
SW1a	7.75	7.57	<0.2	89.10	<1	N/A
SW23	8.72	7.26	19.5	72.60	3.66	N/A
SW25	6.60	7.94	0.9	93.60	5.58	22.1
SW26	6.97	7.63	0.273	85.50	2.52	14.4

Table 2b –Testing Results Summary for Round 156

Monitoring Location	Field Temperature (°C)	Field pH	Ammoniacal Nitrogen Concentration (mg/l)	Field Dissolved Oxygen (%)	BOD (mg/l)	Suspended Solids, Total (mg/l)
SW24	8.83	8.40	<0.2	94.00	8.1	N/A
SW1a	7.77	8.46	<0.2	97.40	<1	N/A
SW23	10.25	7.25	18.3	70.00	5.1	N/A
SW25	8.76	7.83	1.05	89.20	<1	<2
SW26	7.04	7.81	0.334	66.90	2.14	<2
SWAsb	7.56	8.39	<0.2	95.30	2.36	N/A

Table 2c –Testing Results Summary for Round 157

Monitoring Location	Field Temperature (°C)	Field pH	Ammoniacal Nitrogen Concentration (mg/l)	Field Dissolved Oxygen (%)	BOD (mg/l)
SW24	11.89	8.18	<0.2	93.30	3.57
SW1a	9.71	8.10	<0.2	94.90	<1
SW23	10.50	7.68	N/A	85.20	<1
SWAsb/C3 Asb	14.15	8.44	1.47	90.80	2.08

Table 2d –Testing Results Summary for Round 158

Monitoring Location	Field Temperature (°C)	Field pH	Ammoniacal Nitrogen Concentration (mg/l)	Field Dissolved Oxygen (%)	BOD (mg/l)
SW24	13.68	8.00	<0.2	82.60	2.42
SW1a	11.25	7.91	<0.2	92.70	<1
SW23	11.31	7.64	1.44	93.90	<1
SWAsb/C3 Asb	14.27	8.46	<0.2	115.70	<1

Table 2e –Testing Results Summary for Round 159

Monitoring Location	Field Temperature (°C)	Field pH	Ammoniacal Nitrogen Concentration (mg/l)	Field Dissolved Oxygen (%)	BOD (mg/l)
SW24	13.68	8.00	0.322	82.60	2.68
SW1a	11.25	7.91	<0.2	92.70	<1
SW23	11.31	7.64	22.5	93.90	<2.5
SWAsb/C3 Asb	14.27	8.46	<0.2	115.70	2.62



During Rounds 155 and 156, the discharge consent limits for SW25 and SW26 have been met.

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 and in accordance with the relevant discharge consents and PBA will continue to provide comment on water quality with reference to 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

For and on behalf of

PETER BRETT ASSOCIATES LLP

Cc. Gwyn Jones – NCC

Enc. Laboratory Analytical Test Certificates