



Blue Rock Demolition Limited,
Unit 3, 270 Cockett Road, Swansea, SA2 0FN.

CERTIFICATE OF ANALYSIS

Order No: --- Lab Job No: **23-34263**
Client's Reference: **Lagoon Water X 2**
Date Received: **23 March 2023**
Report Date: **13 April 2023**

Sample(s) relating to this job have been analysed and the results are recorded within this analytical certificate.

Authorised by:

Susanne Brookes B.Sc., MSc., M.Chem.A., FRSC
Public Analyst

Key: < less than ^ Subcontracted

Disclaimers: Testing date(s) of specific analyses are available upon request.
Results stated relate only to the items tested.
Unless stated, analysis was undertaken at MTD (Forest Farm Site).

Lab ID: 123237

Sample Description: **Location 1**
Sample Date: **23/03/2023 at 0945**

Determination	Result	Units	Method
^ Naphthalene	< 0.01	µg/l	GCMS
^ Acenaphthylene	< 0.010	µg/l	GCMS
^ Acenaphthene	< 0.010	µg/l	GCMS
^ Fluorene	< 0.010	µg/l	GCMS
^ Phenanthrene	< 0.010	µg/l	GCMS
^ Anthracene	< 0.010	µg/l	GCMS
^ Fluoranthene	< 0.010	µg/l	GCMS
^ Pyrene	< 0.010	µg/l	GCMS
^ Benzo(a)anthracene	< 0.010	µg/l	GCMS
^ Chrysene	< 0.010	µg/l	GCMS
^ Benzo(b)fluoranthene	< 0.01	µg/l	GCMS
^ Benzo(k)fluoranthene	< 0.01	µg/l	GCMS
^ Benzo(a)pyrene	< 0.010	µg/l	GCMS
^ Dibenz(a,h)anthracene	< 0.010	µg/l	GCMS
^ Benzo(g,h,i)perylene	< 0.02	µg/l	GCMS
^ Indeno(1,2,3-c,d)pyrene	< 0.01	µg/l	GCMS
^ PAH (Total of 16 EPA)	< 0.16	µg/l	GCMS
^ Total Petroleum Hydrocarb	< 10	ug/l	
Boron	17.0	µg/l	ICPMS
Arsenic	< 1.0	µg/l	AES 1048
Barium	35.0	µg/l	AES 1048
Beryllium	30.0	µg/l	AES 1048
Cadmium	< 0.05	µg/l	AES 1048
Chromium	< 2.0	µg/l	AES 1048
Copper	< 3	µg/l	AES 1048
Lead	< 1.0	µg/l	AES 1048
Mercury	< 0.10	µg/l	AES 1048
Nickel	1.1	µg/l	AES 1048
Selenium	< 2.0	µg/l	AES 1048
Vanadium by ICPMS	< 1.000	µg/l	
Zinc	< 4	µg/l	AES 1048
^ PCB 28	< 0.020	µg/l	GCMS
^ PCB 52	< 0.020	µg/l	GCMS
^ PCB 101	< 0.020	µg/l	GCMS
^ PCB 118	< 0.020	µg/l	GCMS
^ PCB 138	< 0.020	µg/l	GCMS
^ PCB 153	< 0.020	µg/l	GCMS
^ Total PCB's	< 0.140	µg/l	GCMS
^ PCB 180	< 0.020	µg/l	GCMS
^ PCB 77	< 0.020	µg/l	GCMS
^ PCB 81	< 0.020	µg/l	GCMS
^ PCB 105	< 0.020	µg/l	GCMS
^ PCB 114	< 0.020	µg/l	GCMS

^ PCB 118	< 0.020	µg/l	GCMS
^ PCB 123	< 0.020	µg/l	GCMS
^ PCB 126	< 0.020	µg/l	GCMS
^ PCB 156	< 0.020	µg/l	GCMS
^ PCB 157	< 0.020	µg/l	GCMS
^ PCB 167	< 0.020	µg/l	GCMS
^ PCB 169	< 0.020	µg/l	GCMS
^ PCB 189	< 0.020	µg/l	GCMS
^ Total PCB's (WHO12)	< 0.300	µg/l	GCMS

Comments:

Metals results on dissolved basis

- - -

Lab ID: 123238

Sample Description: **Location 2**
Sample Date: **23/03/2023 at 0945**

Determination	Result	Units	Method
^ Naphthalene	< 0.01	µg/l	GCMS
^ Acenaphthylene	< 0.010	µg/l	GCMS
^ Acenaphthene	< 0.010	µg/l	GCMS
^ Fluorene	< 0.010	µg/l	GCMS
^ Phenathrene	< 0.010	µg/l	GCMS
^ Anthracene	< 0.010	µg/l	GCMS
^ Fluoranthene	< 0.010	µg/l	GCMS
^ Pyrene	< 0.010	µg/l	GCMS
^ Benzo(a)anthracene	< 0.010	µg/l	GCMS
^ Chrysene	< 0.010	µg/l	GCMS
^ Benzo(b)fluoranthene	< 0.01	µg/l	GCMS
^ Benzo(k)fluoranthene	< 0.01	µg/l	GCMS
^ Benzo(a)pyrene	< 0.010	µg/l	GCMS
^ Dibenz(a,h)anthracene	< 0.010	µg/l	GCMS
^ Benzo(g,h,i)perylene	< 0.02	µg/l	GCMS
^ Indeno(1,2,3-c,d)pyrene	< 0.01	µg/l	GCMS
^ PAH (Total of 16 EPA)	< 0.16	µg/l	GCMS
^ Total Petroleum Hydrocarb	< 10	ug/l	
Boron	16.0	µg/l	ICPMS
Arsenic	< 1.0	µg/l	AES 1048
Barium	35.0	µg/l	AES 1048
Beryllium	< 0.05	µg/l	AES 1048
Cadmium	< 0.05	µg/l	AES 1048
Chromium	< 2.0	µg/l	AES 1048
Copper	< 3	µg/l	AES 1048
Lead	< 1.0	µg/l	AES 1048
Mercury	< 0.10	µg/l	AES 1048
Nickel	1.0	µg/l	AES 1048
Selenium	< 2.0	µg/l	AES 1048
Vanadium by ICPMS	< 1.000	µg/l	

Zinc	18	µg/l	AES 1048
^ PCB 28	< 0.020	µg/l	GCMS
^ PCB 52	< 0.020	µg/l	GCMS
^ PCB 101	< 0.020	µg/l	GCMS
^ PCB 118	< 0.020	µg/l	GCMS
^ PCB 138	< 0.020	µg/l	GCMS
^ PCB 153	< 0.020	µg/l	GCMS
^ Total PCB's	< 0.140	µg/l	GCMS
^ PCB 180	< 0.020	µg/l	GCMS
^ PCB 77	< 0.020	µg/l	GCMS
^ PCB 81	< 0.020	µg/l	GCMS
^ PCB 105	< 0.020	µg/l	GCMS
^ PCB 114	< 0.020	µg/l	GCMS
^ PCB 118	< 0.020	µg/l	GCMS
^ PCB 123	< 0.020	µg/l	GCMS
^ PCB 126	< 0.020	µg/l	GCMS
^ PCB 156	< 0.020	µg/l	GCMS
^ PCB 157	< 0.020	µg/l	GCMS
^ PCB 167	< 0.020	µg/l	GCMS
^ PCB 169	< 0.020	µg/l	GCMS
^ PCB 189	< 0.020	µg/l	GCMS
^ Total PCB's (WHO12)	< 0.300	µg/l	GCMS

Comments:

Metals results on dissolved basis

- - -

Lab ID: 123239

Sample Description: **Location 3**

Sample Date: **23/03/2023 at 0945**

Determination	Result	Units	Method
^ Naphthalene	< 0.01	µg/l	GCMS
^ Acenaphthylene	< 0.010	µg/l	GCMS
^ Acenaphthene	< 0.010	µg/l	GCMS
^ Fluorene	< 0.010	µg/l	GCMS
^ Phenanthrene	< 0.010	µg/l	GCMS
^ Anthracene	< 0.010	µg/l	GCMS
^ Fluoranthene	< 0.010	µg/l	GCMS
^ Pyrene	< 0.010	µg/l	GCMS
^ Benzo(a)anthracene	< 0.010	µg/l	GCMS
^ Chrysene	< 0.010	µg/l	GCMS
^ Benzo(b)fluoranthene	< 0.01	µg/l	GCMS
^ Benzo(k)fluoranthene	< 0.01	µg/l	GCMS
^ Benzo(a)pyrene	< 0.010	µg/l	GCMS
^ Dibenz(a,h)anthracene	< 0.010	µg/l	GCMS
^ Benzo(g,h,i)perylene	< 0.02	µg/l	GCMS
^ Indeno(1,2,3-c,d)pyrene	< 0.01	µg/l	GCMS
^ PAH (Total of 16 EPA)	< 0.16	µg/l	GCMS

^ Total Petroleum Hydrocarb	< 10	ug/l	
Boron	17.0	µg/l	ICPMS
Arsenic	< 1.0	µg/l	AES 1048
Barium	35.0	µg/l	AES 1048
Beryllium	< 0.05	µg/l	AES 1048
Cadmium	< 0.05	µg/l	AES 1048
Chromium	< 2.0	µg/l	AES 1048
Copper	< 3	µg/l	AES 1048
Lead	< 1.0	µg/l	AES 1048
Mercury	< 0.10	µg/l	AES 1048
Nickel	1.1	µg/l	AES 1048
Selenium	< 2.0	µg/l	AES 1048
Vanadium by ICPMS	< 1.000	µg/l	
Zinc	35	µg/l	AES 1048
^ PCB 28	< 0.020	µg/l	GCMS
^ PCB 52	< 0.020	µg/l	GCMS
^ PCB 101	< 0.020	µg/l	GCMS
^ PCB 118	< 0.020	µg/l	GCMS
^ PCB 138	< 0.020	µg/l	GCMS
^ PCB 153	< 0.020	µg/l	GCMS
^ Total PCB's	< 0.140	µg/l	GCMS
^ PCB 180	< 0.020	µg/l	GCMS
^ PCB 77	< 0.020	µg/l	GCMS
^ PCB 81	< 0.020	µg/l	GCMS
^ PCB 105	< 0.020	µg/l	GCMS
^ PCB 114	< 0.020	µg/l	GCMS
^ PCB 118	< 0.020	µg/l	GCMS
^ PCB 123	< 0.020	µg/l	GCMS
^ PCB 126	< 0.020	µg/l	GCMS
^ PCB 156	< 0.020	µg/l	GCMS
^ PCB 157	< 0.020	µg/l	GCMS
^ PCB 167	< 0.020	µg/l	GCMS
^ PCB 169	< 0.020	µg/l	GCMS
^ PCB 189	< 0.020	µg/l	GCMS
^ Total PCB's (WHO12)	< 0.300	µg/l	GCMS

Comments:

Metals results on dissolved basis

- - -

Lab ID: 123240

Sample Description: **Location 4**

Sample Date: **23/03/2023 at 0945**

Determination	Result	Units	Method
^ Naphthalene	< 0.01	µg/l	GCMS
^ Acenaphthylene	< 0.010	µg/l	GCMS
^ Acenaphthene	< 0.010	µg/l	GCMS
^ Fluorene	< 0.010	µg/l	GCMS

^ Phenathrene	< 0.010	µg/l	GCMS
^ Anthracene	< 0.010	µg/l	GCMS
^ Fluoranthene	< 0.010	µg/l	GCMS
^ Pyrene	< 0.010	µg/l	GCMS
^ Benzo(a)anthracene	< 0.010	µg/l	GCMS
^ Chrysene	< 0.010	µg/l	GCMS
^ Benzo(b)fluoranthene	< 0.01	µg/l	GCMS
^ Benzo(k)fluoranthene	< 0.01	µg/l	GCMS
^ Benzo(a)pyrene	< 0.010	µg/l	GCMS
^ Dibenz(a,h)anthracene	< 0.010	µg/l	GCMS
^ Benzo(g,h,i)perylene	< 0.02	µg/l	GCMS
^ Indeno(1,2,3-c,d)pyrene	< 0.01	µg/l	GCMS
^ PAH (Total of 16 EPA)	< 0.16	µg/l	GCMS
^ Total Petroleum Hydrocarb	< 10	ug/l	
Boron	16.0	µg/l	ICPMS
Arsenic	< 1.0	µg/l	AES 1048
Barium	35.0	µg/l	AES 1048
Beryllium	< 0.05	µg/l	AES 1048
Cadmium	< 0.05	µg/l	AES 1048
Chromium	< 2.0	µg/l	AES 1048
Copper	< 3	µg/l	AES 1048
Lead	< 1.0	µg/l	AES 1048
Mercury	< 0.10	µg/l	AES 1048
Nickel	1.0	µg/l	AES 1048
Selenium	< 2.0	µg/l	AES 1048
Vanadium by ICPMS	< 1.000	µg/l	
Zinc	26	µg/l	AES 1048
^ PCB 28	< 0.020	µg/l	GCMS
^ PCB 52	< 0.020	µg/l	GCMS
^ PCB 101	< 0.020	µg/l	GCMS
^ PCB 118	< 0.020	µg/l	GCMS
^ PCB 138	< 0.020	µg/l	GCMS
^ PCB 153	< 0.020	µg/l	GCMS
^ Total PCB's	< 0.140	µg/l	GCMS
^ PCB 180	< 0.020	µg/l	GCMS
^ PCB 77	< 0.020	µg/l	GCMS
^ PCB 81	< 0.020	µg/l	GCMS
^ PCB 105	< 0.020	µg/l	GCMS
^ PCB 114	< 0.020	µg/l	GCMS
^ PCB 118	< 0.020	µg/l	GCMS
^ PCB 123	< 0.020	µg/l	GCMS
^ PCB 126	< 0.020	µg/l	GCMS
^ PCB 156	< 0.020	µg/l	GCMS
^ PCB 157	< 0.020	µg/l	GCMS
^ PCB 167	< 0.020	µg/l	GCMS
^ PCB 169	< 0.020	µg/l	GCMS
^ PCB 189	< 0.020	µg/l	GCMS



Job no: 23-34263

Issue: 1

Page 7 of 7

^ Total PCB's (WHO12)	< 0.300	µg/l	GCMS
-----------------------	---------	------	------

Comments:

Metals results on dissolved basis

- - -