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Ein Cyf / Our Ref: H4/10401

Eich Cyf / Your Ref:

Dyddiad / Date: 23rd August 2012

To Whom It May Concern:

Re: Foryd Harbour Public Square and Extended Quay Wall - Contamination levels of material to be excavated

Contamination testing has been undertaken by Denbighshire County Council on material that is to be excavated as part of the Foryd Harbour – Public Square and Extended Quay Wall Scheme (Environmental Permit :EPR/EB3635RQ and Exemption: EPR/SE5294NZ/A001).

The second phase of contamination testing for the scheme has been undertaken below Mean Low Water as agreed with the Environment Agency Wales on 5th April 2012.

A summary of the results is presented below and the location of the boreholes and contamination levels detected appended to this letter.

Soil samples

The soil samples have been compared against EA SGVs and LQM/CIEH GACs limits as identified in the Environmental Statement for the Scheme.

It should be noted that Human Health thresholds are based on residential criteria (i.e. human receptors living on site all their lives, growing vegetables and spending extensive time in direct contact with site soils). This is very conservative for the Foryd Harbour site, where users will only access the site for a small proportion of their lives and where most of the accessible areas of the harbour will be covered in hardstanding.

There are a number of slight exceedances of Cefas Action level 1 but no exceedances of upper action level with the exception of Tributyl tin in Sample 1.

Leachate samples

The leachate samples have been compared against estuarine EQS thresholds as identified in the Environmental Statement for the Scheme. However, it should be noted

that the EQS have now been withdrawn (although they remain the most suitable thresholds to use when assessing the risks to surface waters as in this instance).

The laboratory testing the samples could not achieve the required limits of detection for PAH. The results of the tests indicate that the samples are slightly higher than the EQS threshold. It therefore is not possible to assess how much the samples exceed the limit by. However, as all samples are still very low (equal or just over limit of detection) there are not any major issues for these contaminants (particularly as no soils exhibited elevated concentrations of PAH - i.e. the water levels aren't originating from sediment but are probably from another (offsite) source or are natural.

Ammoniacal nitrogen levels for all samples are slightly elevated however it is considered that these levels are likely to stem from the harbour waters rather than the sediment

Please don't hesitate to get in contact should you require further information regarding the contamination testing.

Yours Sincerely

Eric Price
Principal Project Manager – Major Projects Group

Pennaeth Prifffyrdd ac Isadeiledd
Head of Highways & Infrastructure
Conwy a Sir Ddinbych / Denbighshire

LABORATORY TEST REPORT

Results of analysis of 5 samples
received 13 August 2012

Foryd Harbour Testing

Report Date
21 August 2012

Login Batch No		211035				
Chemtest LIMS ID		AH62495	AH62496	AH62497	AH62498	AH62499
Sample ID		2	4	6	8	10
Sample No						
Sampling Date						
Depth						
Matrix						
SOP 1 Determinand 1	CAS No 1					
1010 pH	PH	7.5	7.8	8.8	8.6	8.7
1220 Chloride	16887006	710	470	78	92	120
Ammoniacal Nitrogen	AMM_NITROG	2.3	3.3	0.07	0.09	0.05
1470 Iron (dissolved)	7439896	30	30	<20	70	<20
1220 Sulfate	14808798	110	56	17	16	19
1450 Arsenic	7440382	15	20	2.2	2.8	2.1
Boron	7440428	380	320	63	47	48
Cadmium	7440439	<0.08	<0.08	<0.08	<0.08	<0.08
Chromium	7440473	6.4	4.2	1.7	1.1	<1.0
Copper	7440508	3.5	2.8	<1.0	<1.0	<1.0
Mercury	7439876	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	7440020	1.1	<1.0	<1.0	<1.0	<1.0
Lead	7439921	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium	7782492	8.4	4.9	<1.0	<1.0	1.0
Vanadium	7440622	6.5	13	3.0	4.0	3.3
Zinc	7440666	1.8	2.7	1.3	1.1	<1.0
1673 TPH >C6-C10		<0.10 ¹	<0.10 ¹	<0.10 ¹	<0.10 ¹	<0.10 ¹
TPH >C10-C21		<0.10 ¹	<0.10 ¹	<0.10 ¹	<0.10 ¹	<0.10 ¹
TPH >C21-C40		<0.10 ¹	<0.10 ¹	<0.10 ¹	<0.10 ¹	<0.10 ¹
TPH (Aqueous Phase)		<10 ¹	<10 ¹	<10 ¹	<10 ¹	<10 ¹
1700 Naphthalene	91203	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	208968	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	83329	<0.1	<0.1	<0.1	<0.1	<0.1

¹No sampling date was specified, stability times for this analyte may have been exceeded and these results may be compromised and will not be accredited (UKAS/MCerts)

All tests undertaken between 13/08/2012 and 21/08/2012

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 5 samples
received 13 August 2012

Ford Harbour Testing

Report Date
21 August 2012

211035

AH62495	AH62496	AH62497	AH62498	AH62499
2	4	6	8	10

	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided
	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
1700 Fluorene	86737 µg l ⁻¹	<0.1	<0.1	<0.1	<0.1
Phenanthrene	85018 µg l ⁻¹	<0.1	<0.1	<0.1	<0.1
Anthracene	120127 µg l ⁻¹	<0.1	<0.1	<0.1	<0.1
Fluoranthene	206440 µg l ⁻¹	<0.1	<0.1	<0.1	<0.1
Pyrene	129000 µg l ⁻¹	<0.1	<0.1	<0.1	<0.1
Benz[a]anthracene	56553 µg l ⁻¹	<0.1	<0.1	<0.1	<0.1
Chrysene	218019 µg l ⁻¹	<0.1	<0.1	<0.1	<0.1
Benz[b]fluoranthene	205992 µg l ⁻¹	<0.1	<0.1	<0.1	<0.1
Benz[k]fluoranthene	207089 µg l ⁻¹	<0.1	<0.1	<0.1	<0.1
Benz[a]pyrene	50328 µg l ⁻¹	<0.1	<0.1	<0.1	<0.1
Dibenz[a,h]anthracene	53703 µg l ⁻¹	<0.1	<0.1	<0.1	<0.1
Indeno[1,2,3-cd]pyrene	193395 µg l ⁻¹	<0.1	<0.1	<0.1	<0.1
Benz[ghi]perylene	191242 µg l ⁻¹	<0.1	<0.1	<0.1	<0.1
Total (of 16) PAHs	<2	<2	<2	<2	<2
1760 Benzene	71432 µg l ⁻¹	<1.0 ¹	<1.0 ¹	<1.0 ¹	<1.0 ¹
Toluene	108883 µg l ⁻¹	<1.0 ¹	<1.0 ¹	<1.0 ¹	<1.0 ¹
Ethylbenzene	100414 µg l ⁻¹	<1.0 ¹	<1.0 ¹	<1.0 ¹	<1.0 ¹
m- & p-Xylene	1330207 µg l ⁻¹	<1.0 ¹	<1.0 ¹	<1.0 ¹	<1.0 ¹
o-Xylene	95476 µg l ⁻¹	<1.0 ¹	<1.0 ¹	<1.0 ¹	<1.0 ¹
1920 Phenols (total)	<0.03	<0.03	<0.03	<0.03	<0.03

No sampling date was specified, stability times for this analyte may have been exceeded and these results may be compromised and will not be accredited (UKAS/MCerts)

All tests undertaken between 13/08/2012 and 21/08/2012

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LABORATORY TEST REPORT

Results of analysis of 15 samples
received 13 August 2012

Fordy Harbour Testing

Report Date
21 August 2012

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Sampling Date

Depth

Matrix

SOP ↓ Determinand ↓

2120 Boron (hot water soluble)

2490 Chromium (hexavalent)

2430 Sulfate (total) as SO₄

2450 Arsenic

Cadmium

Chromium

Copper

Nickel

Lead

Selenium

Vanadium

Zinc

2460 Mercury (Inorganic)

2675 TPH aliphatic >C5-C6

TPH aliphatic >C6-C8

TPH aliphatic >C8-C10

TPH aliphatic >C10-C12

TPH aliphatic >C12-C16

TPH aliphatic >C16-C21

TPH aliphatic >C21-C35

TPH aliphatic >C35-C44

TPH aromatic >C5-C7

TPH aromatic >C7-C8

211035

AH62491

7

AH62492

8

AH62493

9

AH62494

10

Not Provided

Not Provided

Not Provided

Not Provided

SOIL

SOIL

SOIL

SOIL

*

1.0

0.8

0.8

0.7

M

<0.5

<0.5

<0.5

<0.5

N

300

200

200

300

M

7.5

<2.0

<2.0

<2.0

M

<0.10

<0.10

<0.10

<0.10

M

7.0

<5.0

<5.0

<5.0

M

<5.0

<5.0

<5.0

<5.0

M

<5.0

<5.0

<5.0

<5.0

M

<5.0

<5.0

<5.0

<5.0

M

<0.20

<0.20

0.47

<0.20

M

8.7

9.5

8.9

8.4

M

14

17

15

15

N

<0.1

<0.1

<0.1

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N

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<0.1

<0.1

<0.1

<0.1

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LABORATORY TEST REPORT

Results of analysis of 15 samples
received 13 August 2012

Foryd Harbour Testing

Report Date
21 August 2012



	AH62485	AH62486	AH62487	AH62488	AH62489	AH62490
	1	2	3	4	5	6
	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided
2675 TPH aromatic >C8-C10	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
TPH aromatic >C10-C12	< 0.1 ¹	< 0.1 ¹	< 0.1 ¹	< 0.1 ¹	< 0.1 ¹	< 0.1 ¹
TPH aromatic >C12-C16	< 1 ¹	< 1 ¹	< 1 ¹	< 1 ¹	< 1 ¹	< 1 ¹
TPH aromatic >C16-C21	< 1 ¹	< 1 ¹	< 1 ¹	< 1 ¹	< 1 ¹	< 1 ¹
TPH aromatic >C21-C35	< 1 ¹	< 1 ¹	< 1 ¹	< 1 ¹	< 1 ¹	< 1 ¹
TPH aromatic >C35-C44	< 1 ¹	< 1 ¹	< 1 ¹	< 1 ¹	< 1 ¹	< 1 ¹
Total Petroleum Hydrocarbons	< 10 ¹	< 10 ¹	< 10 ¹	< 10 ¹	< 10 ¹	< 10 ¹
2700 Naphthalene	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹
Acenaphthylene	91203	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	208968	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	83329	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	86737	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	85018	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	120127	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	206440	0.41	< 0.1	< 0.1	< 0.1	< 0.1
Benzofluoranthene	129000	0.45	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	56553	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzokjfluoranthene	218019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzolajfluoranthene	205992	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzolajpyrene	207089	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzolajanthracene	50328	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	53703	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzolajh,ijpyrene	193395	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total (of 16) PAHs	191242	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

No sampling date was specified, stability times for this analyte may have been exceeded and these results may be compromised and will not be accredited (UKAS/MCerts)

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LABORATORY TEST REPORT

Results of analysis of 15 samples
received 13 August 2012

Foryd Harbour Testing

Report Date
21 August 2012

211035

AH62491	AH62492	AH62493	AH62494
7	8	9	10

	Not Provided	Not Provided	Not Provided	Not Provided
	SOIL	SOIL	SOIL	SOIL
2675 TPH aromatic >C8-C10	mg kg ⁻¹	< 0.1 ¹	< 0.1 ¹	< 0.1 ¹
TPH aromatic >C10-C12	mg kg ⁻¹	< 1 ¹	< 1 ¹	< 1 ¹
TPH aromatic >C12-C16	mg kg ⁻¹	< 1 ¹	< 1 ¹	< 1 ¹
TPH aromatic >C16-C21	mg kg ⁻¹	< 1 ¹	< 1 ¹	< 1 ¹
TPH aromatic >C21-C35	mg kg ⁻¹	< 1 ¹	< 1 ¹	< 1 ¹
TPH aromatic >C35-C44	mg kg ⁻¹	< 1 ¹	< 1 ¹	< 1 ¹
Total Petroleum Hydrocarbons	mg kg ⁻¹	< 10 ¹	< 10 ¹	< 10 ¹
2700 Naphthalene	91203	mg kg ⁻¹	< 0.1	< 0.1
Acenaphthylene	208968	mg kg ⁻¹	< 0.1	< 0.1
Acenaphthene	83329	mg kg ⁻¹	< 0.1	< 0.1
Fluorene	86737	mg kg ⁻¹	< 0.1	< 0.1
Phenanthrene	85018	mg kg ⁻¹	< 0.1	< 0.1
Anthracene	120127	mg kg ⁻¹	< 0.1	< 0.1
Fluoranthene	206440	mg kg ⁻¹	< 0.1	< 0.1
Pyrene	129000	mg kg ⁻¹	< 0.1	< 0.1
Benzofluoranthene	56553	mg kg ⁻¹	< 0.1	< 0.1
Chrysene	218019	mg kg ⁻¹	< 0.1	< 0.1
Benzofluoranthene	205992	mg kg ⁻¹	< 0.1	< 0.1
Benzofluoranthene	207089	mg kg ⁻¹	< 0.1	< 0.1
Benzofluoranthene	50328	mg kg ⁻¹	< 0.1	< 0.1
Dibenzofluoranthene	53703	mg kg ⁻¹	< 0.1	< 0.1
Indenofluoranthene	193395	mg kg ⁻¹	< 0.1	< 0.1
Benzofluoranthene	191242	mg kg ⁻¹	< 0.1	< 0.1
Total (of 16) PAHs		< 2	< 2	< 2

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AH62491	AH62492	AH62493	AH62494
7	8	9	10

	Not Provided	Not Provided	Not Provided	Not Provided
	SOIL	SOIL	SOIL	SOIL
2730 Dibutyl tin	1002535	1002535	1002535	1002535
	µg kg ⁻¹	µg kg ⁻¹	µg kg ⁻¹	µg kg ⁻¹
Tributyl tin	688733	688733	688733	688733
	µg kg ⁻¹	µg kg ⁻¹	µg kg ⁻¹	µg kg ⁻¹
2760 Benzene	71432	71432	71432	71432
	µg kg ⁻¹	µg kg ⁻¹	µg kg ⁻¹	µg kg ⁻¹
Toluene	108883	108883	108883	108883
	µg kg ⁻¹	µg kg ⁻¹	µg kg ⁻¹	µg kg ⁻¹
Ethylbenzene	100414	100414	100414	100414
	µg kg ⁻¹	µg kg ⁻¹	µg kg ⁻¹	µg kg ⁻¹
m- & p-Xylene	1330207	1330207	1330207	1330207
	µg kg ⁻¹	µg kg ⁻¹	µg kg ⁻¹	µg kg ⁻¹
o-Xylene	95476	95476	95476	95476
	µg kg ⁻¹	µg kg ⁻¹	µg kg ⁻¹	µg kg ⁻¹
2815 2,2',4,5,5'-Pentachlorobiphenyl	37680732	37680732	37680732	37680732
	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹
2,3',4,4',5'-Pentachlorobiphenyl	31508006	31508006	31508006	31508006
	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹
2,2',3,4,4',5'-Hexachlorobiphenyl	35065282	35065282	35065282	35065282
	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹
2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	35065271	35065271	35065271
	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	35065293	35065293	35065293
	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹
2,4,4'-Trichlorobiphenyl	7012375	7012375	7012375	7012375
	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹
2,2',5,5'-Tetrachlorobiphenyl	35693993	35693993	35693993	35693993
	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹
2840 4,4'-DDT	50293	50293	50293	50293
	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹
Dieldrin	60571	60571	60571	60571
	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹

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Fordd Harbour Testing

Report Date
21 August 2012

	211035					
	AH62485	AH62486	AH62487	AH62488	AH62489	AH62490
	1	2	3	4	5	6
	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided
	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2730 Dibutyl tin	1002535 µg kg ⁻¹	<10 µg kg ⁻¹	<10 µg kg ⁻¹	<10 µg kg ⁻¹	<10 µg kg ⁻¹	<10 µg kg ⁻¹
Tributyl tin	688733 µg kg ⁻¹	<10 µg kg ⁻¹	<10 µg kg ⁻¹	<10 µg kg ⁻¹	<10 µg kg ⁻¹	<10 µg kg ⁻¹
2760 Benzene	71432 µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹
Toluene	108883 µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹
Ethylbenzene	100414 µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹
m- & p-Xylene	1330207 µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹
o-Xylene	95476 µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹	<1.0 ¹ µg kg ⁻¹
2815 2,2',4,4',5,5'-Pentachlorobiphenyl	37680732 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹
2,3',4,4',5-Pentachlorobiphenyl	31508006 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹
2,2',3,4,4',5-Hexachlorobiphenyl	35065282 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹
2,2',4,4',5,5'-Hexachlorobiphenyl	35065271 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹
2,4,4'-Trichlorobiphenyl	7012375 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹
2,2',5,5'-Tetrachlorobiphenyl	35693993 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹
2840 4,4-DDT	50293 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹	<0.01 mg kg ⁻¹
Dieldrin	60571 mg kg ⁻¹	<0.2 mg kg ⁻¹	<0.2 mg kg ⁻¹	<0.2 mg kg ⁻¹	<0.2 mg kg ⁻¹	<0.2 mg kg ⁻¹

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