



DS/234-02-09/6113KE

19th January 2015

ABP mer
Quayside Suite
Medina Chambers
Town Quay
Southampton
SA14 2AQ

For the attention of: Ms Hannah Bodley

Dear Hannah,

We recently completed a trial pitting exercise at ABP Barry in order to satisfy the requirements of planning condition 12 as follows: -

"Prior to the commencement of any development (including site clearance and re-profiling of any land) a contaminated land survey shall be conducted on the land between the former coal yard and the inert waste recycling site. As a minimum, at least 5 further trial pits should be sampled on the above section of land, at least one centrally and a further 4 at random separation but not at the boundary of the site, the location of which shall be agreed by the Local Planning Authority, prior to the sampling being undertaken.

The results of the survey shall be submitted to the Local Planning Authority and must include any recommendations for remediation, where found necessary. Development shall only commence following written confirmation from the Local Planning Authority that a satisfactory assessment of the site has been conducted and that any proposed remediation strategy, where necessary, is considered acceptable and is agreed."

The location of the additional 5 trial pits were agreed with the Local Authority prior to commencement. The locations of the trial pits are shown in the drawing included with this letter.

Samples were taken from each of the trial pits and sent for analysis. The samples were analysed for the same determinands as previous samples obtained from around the site. The results are summarised in the table below and the analysis certificates are enclosed with this letter.

Table 1 – Analysis Results

Determinand	Units	TP1	TP2	TP3	TP4	TP5	Generic Acceptance Criteria (GAC)
pH	pH units	8.99	8.29	9.18	9.28	8.86	
TPH	mg/kg	<0.50	2.46	3.05	6.29	2.04	500
As (Total)	mg/kg	29.00	4.90	22.00	12.00	27.00	640
As (Leachable)	mg/kg	4.60	2.60	<1.00	1.40	4.80	
Cd (Total)	mg/kg	0.87	0.12	0.24	0.12	0.92	230
Cd (Leachable)	mg/kg	<0.08	<0.08	<0.08	<0.08	<0.08	
Cr (Total)	mg/kg	41.00	16.00	20.00	22.00	25.00	30400
Cr (Leachable)	mg/kg	<1.00	<1.00	<1.00	<1.00	25.00	
Cu (Total)	mg/kg	48.00	48.00	18.00	55.00	88.00	71700
Cu (Leachable)	mg/kg	3.90	7.80	5.10	10.00	6.60	
Ni (Total)	mg/kg	27.00	29.00	22.00	31.00	31.00	1800
Ni (Leachable)	mg/kg	<1.00	1.80	<1.00	<1.00	<1.00	
Zn (Total)	mg/kg	180.0	56.00	39.00	67.00	360.0	665000
Zn (Leachable)	mg/kg	1.90	12.00	2.10	1.00	4.00	
Pb (Total)	mg/kg	160.0	46.00	23.00	28.00	330.0	750
Pb (Leachable)	mg/kg	<1.00	13.00	<1.00	<1.00	2.10	





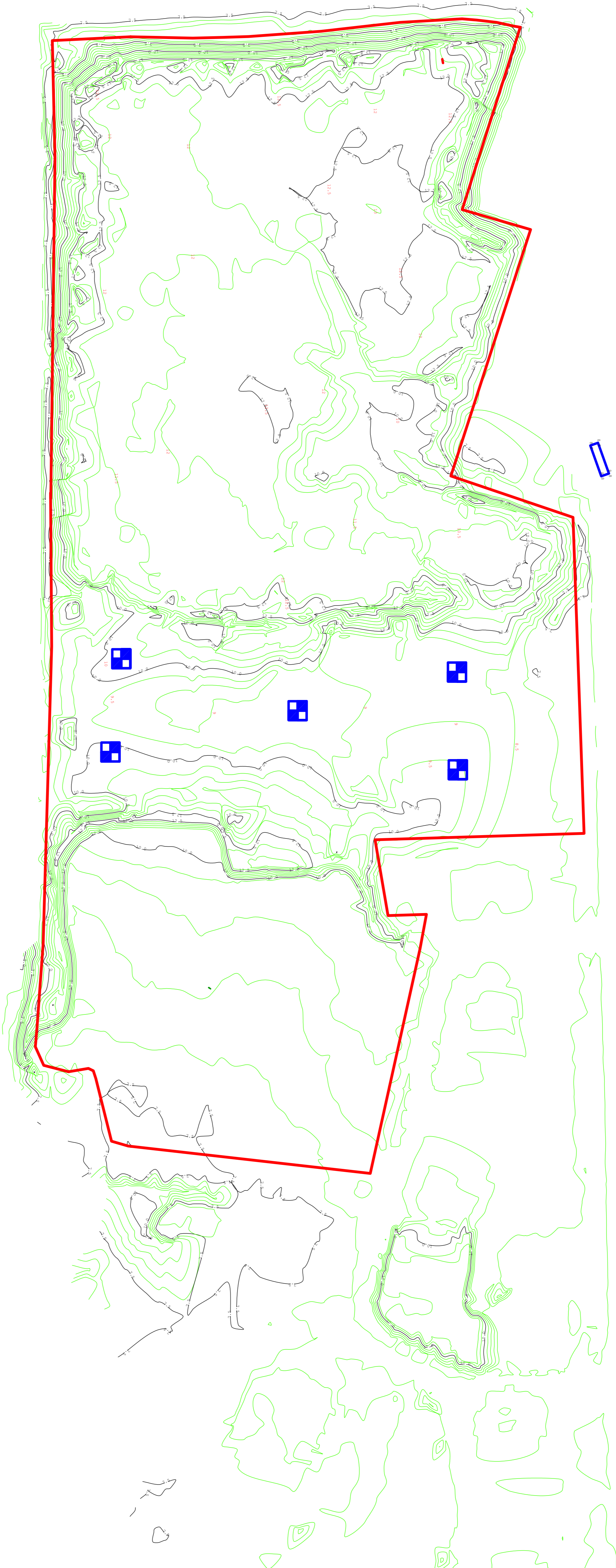
The results of chemical analysis on soil samples confirm that the soils lie within normal accepted levels for a commercial / industrial end use.

No remediation is therefore recommended.

We trust that the data above is sufficient to satisfy planning condition 12. However, if you require anything further, please do not hesitate to contact me.

Yours sincerely,

D Simons
Environmental Scientist



— Red line Boundary

■ Trial Pit Location

Job: 234-02-09

Title: Trial Pit Locations

Date: January 2015
Scale: 1:1000 @A1
Drawn by: DS
Checked by: AP



ExCAL House,
Capei Hendre Ind. Est.,
Ammarford,
Carmarthenshire,
SA18 3SJ
Tel: 01269 831606
Fax: 01269 841867
Website: www.excaluk.com
E-mail: info@excaluk.com

Drawing No: 234-02-09.d01
Revision No: Date:



Dan Simons
ExCAL Ltd
ExCAL House
Capel Hendre Industrial Estate
Ammanford
SA18 3SJ

Decus Research Limited
ExCAL House
Capel Hendre Industrial Estate
Ammanford
Carmarthenshire
SA18 3SJ

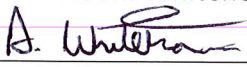
Tel: 01269 844558
Fax: 01269 841867
Email: info@decusuk.com

Certificate of Analysis Number: 1207

Project/Site name:	ABP Barry	Samples Taken:	22-12-2014
Job Number:	-	Samples Received:	22-12-2014
Order Number:	EC2467	Analysis Complete:	15-01-2014
Sample Matrix:	Soil	Report Issued:	16-01-2014
		Sampled By:	D. Simons

Disposal Times:

All water samples will be retained for a period of two weeks and all soil samples retained for a period of one month following the date of the issued certificate.

Approved by: Adam Whitehouse
Signature: 
Title: Quality Manager

ExCAL Ltd
ExCAL House
Capel Hendre Industrial Estate
Ammanford
SA18 3SJ

CERTIFICATE OF ANALYSIS 1207

Results of analysis of 5 samples received
on the 22/12/14

Report Date
16th January 2015

F.A.O: Dan Simons

Code	Determinand	Units	*	Sample Identification			
Laboratory Sample Number:				221214008	221214009	221214010	221214011
Client Sample Reference:				TP 1	TP 2	TP 3	TP 4
Sample Date:				22/12/14	22/12/14	22/12/14	22/12/14
Sample Depth:				N/A	N/A	N/A	N/A
Sample Matrix:				Sandy loam	Sandy loam	Clay	Clay loam
ORG-S01	TPH	mg.kg ⁻¹	N	<0.50	2.46	3.05	6.29
INORG-S01	pH	pH units	N	8.99	8.29	9.18	9.28
2450	Arsenic (<i>Total</i>)	mg.kg ⁻¹	S	29.00	4.90	22.00	12.00
1450	Arsenic (<i>Leachable</i>)	µg.kg ⁻¹	S	4.60	2.60	<1.00	1.40
2450	Cadmium (<i>Total</i>)	mg.kg ⁻¹	S	0.87	0.12	0.24	0.12
1450	Cadmium (<i>Leachable</i>)	µg.kg ⁻¹	S	<0.08	<0.08	<0.08	<0.08
2450	Chromium (<i>Total</i>)	mg.kg ⁻¹	S	41.00	16.00	20.00	22.00
1450	Chromium (<i>Leachable</i>)	µg.kg ⁻¹	S	<1.00	<1.00	<1.00	<1.00
2450	Copper (<i>Total</i>)	mg.kg ⁻¹	S	48.00	48.00	18.00	55.00
1450	Copper (<i>Leachable</i>)	µg.kg ⁻¹	S	3.90	7.80	5.10	10.00
2450	Nickel (<i>Total</i>)	mg.kg ⁻¹	S	27.00	29.00	22.00	31.00
1450	Nickel (<i>Leachable</i>)	µg.kg ⁻¹	S	<1.00	1.80	<1.00	<1.00
2450	Zinc (<i>Total</i>)	mg.kg ⁻¹	S	180.0	56.00	39.00	67.00
1450	Zinc (<i>Leachable</i>)	µg.kg ⁻¹	S	1.90	12.00	2.10	1.00
2450	Lead (<i>Total</i>)	mg.kg ⁻¹	S	160.0	46.00	23.00	28.00
1450	Lead (<i>Leachable</i>)	µg.kg ⁻¹	S	<1.00	13.00	<1.00	<1.00

* Accreditation Status

Tests marked 'A' hold UKAS accreditation

Test marked 'M' hold MCERTS accreditation

Tests marked 'N' do not hold UKAS accreditation

Tests marked 'S' were sub-contracted to an approved laboratory

Any comments or interpretations are beyond the scope of UKAS accreditation

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16th January 2015

F.A.O: Dan Simons

Code	Determinand	Units	*	Sample Identification			
Laboratory Sample Number:				221214012			
Client Sample Reference:				TP 5			
Sample Date:				22/12/14			
Sample Depth:				N/A			
Sample Matrix:				Loam			
ORG-S01	TPH	mg.kg ⁻¹	N	2.04			
INORG-S01	pH	pH units	N	8.86			
METALS-S	Arsenic (<i>Total</i>)	mg.kg ⁻¹	S	27.00			
METALS-S	Arsenic (<i>Leachable</i>)	mg.kg ⁻¹	S	4.80			
METALS-S	Cadmium (<i>Total</i>)	mg.kg ⁻¹	S	0.92			
METALS-S	Cadmium (<i>Leachable</i>)	mg.kg ⁻¹	S	<0.08			
METALS-S	Chromium (<i>Total</i>)	mg.kg ⁻¹	S	25.00			
METALS-S	Chromium (<i>Leachable</i>)	mg.kg ⁻¹	S	25.00			
METALS-S	Copper (<i>Total</i>)	mg.kg ⁻¹	S	88.00			
METALS-S	Copper (<i>Leachable</i>)	mg.kg ⁻¹	S	6.60			
METALS-S	Nickel (<i>Total</i>)	mg.kg ⁻¹	S	31.00			
METALS-S	Nickel (<i>Leachable</i>)	mg.kg ⁻¹	S	<1.00			
METALS-S	Zinc (<i>Total</i>)	mg.kg ⁻¹	S	360.0			
METALS-S	Zinc (<i>Leachable</i>)	mg.kg ⁻¹	S	4.00			
METALS-S	Lead (<i>Total</i>)	mg.kg ⁻¹	S	330.0			
METALS-S	Lead (<i>Leachable</i>)	mg.kg ⁻¹	S	2.10			

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Analytical Method	Method Code	Accreditation Status
Determination of Total Petroleum Hydrocarbons in soil by GC-FID (In-house method)	ORG-S01	None
The Determination of pH of soil by electrode probe meter (In-house method)	INORG-S01	None
The Determination of total metals in soil by ICP-OES (Cr, Cu, Ni, Pb, Zn, Cd, As)	2450	ISO 17025
The Determination of soluble metals in soil at L:S 10:1 by ICP-OES (Cr, Cu, Ni, Pb, Zn, Cd, As)	1450	ISO 17025

*****END OF REPORT*****

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