

Envirolab Job Number: 22/08265

Client: Booth Ventures Ltd

Client Project Name: Titus Barn Bradley Fold

Client Project Ref: N/A

Lab Sample ID				22/08265/1	22/08265/2	22/08265/3
Client Sample No						
Client Sample ID				North	South	East
Depth to Top						
Depth to Bottom						
Date Sampled						
Sample Type				Soil	Soil	Soil
Sample Matrix Code	Units	Limit of Detection	Method	6AE	4ABE	4AE
% Moisture at <40C	% w/w	0.1	A-T-044	18.3	16.7	20.5
% Stones >10mm	% w/w	0.1	A-T-044	<0.1	<0.1	<0.1
pH	pH	0.01	A-T-031s	6.11	5.77	6.01
Chloride (water sol 2:1)	mg/kg	10	A-T-026s	<10	<10	<10
Sulphate (water sol 2:1)	g/l	0.01	A-T-026s	<0.01	<0.01	<0.01
Sulphate (acid soluble)	mg/kg	200	A-T-028s	1000	860	1100
Cyanide (total)	mg/kg	1	A-T-042sTCN	<1	<1	<1
Phenols - Total by HPLC	mg/kg	0.2	A-T-050s	<0.2	<0.2	<0.2
Sulphide	mg/kg	5	A-T-043-s	410	410	420
Total Organic Carbon	% w/w	0.03	A-T-032s	5.32	5.75	6.41
Arsenic	mg/kg	1	A-T-024s	41	34	38
Boron (water soluble)	mg/kg	1	A-T-027s	<1.0	<1.0	<1.0
Cadmium	mg/kg	0.5	A-T-024s	1.1	1	1
Copper	mg/kg	1	A-T-024s	77	69	67
Chromium	mg/kg	1	A-T-024s	48	44	47
Lead	mg/kg	1	A-T-024s	191	147	162
Mercury	mg/kg	0.17	A-T-024s	<0.17	<0.17	<0.17
Nickel	mg/kg	1	A-T-024s	21	19	19
Selenium	mg/kg	1	A-T-024s	2	2	2
Zinc	mg/kg	5	A-T-024s	129	111	128
Asbestos in Soil (inc. matrix)						
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Asbestos in soil			A-T-045	NAD	NAD	NAD
Asbestos Matrix (visual)			A-T-045	-	-	-
Asbestos Matrix (microscope)			A-T-045	-	-	-
Asbestos ACM - Suitable for Water Absorption Test?			A-T-045	N/A	N/A	N/A
PAH-16MS						
Acenaphthene	mg/kg	0.01	A-T-019s	0.07	0.06	0.06
Acenaphthylene	mg/kg	0.01	A-T-019s	<0.01	<0.01	<0.01
Anthracene	mg/kg	0.02	A-T-019s	0.13	0.1	0.11
Benzo(a)anthracene	mg/kg	0.04	A-T-019s	0.42	0.4	0.39
Benzo(a)pyrene	mg/kg	0.04	A-T-019s	0.4	0.41	0.39
Benzo(b)fluoranthene	mg/kg	0.05	A-T-019s	0.39	0.4	0.38
Benzo(ghi)perylene	mg/kg	0.05	A-T-019s	0.26	0.26	0.25
Benzo(k)fluoranthene	mg/kg	0.07	A-T-019s	0.13	0.13	0.13
Chrysene	mg/kg	0.06	A-T-019s	0.53	0.49	0.49
Dibenzo(ah)anthracene	mg/kg	0.04	A-T-019s	0.06	0.06	0.05
Fluoranthene	mg/kg	0.08	A-T-019s	1.03	0.91	0.97
Fluorene	mg/kg	0.01	A-T-019s	0.05	0.04	0.04
Indeno(123-cd)pyrene	mg/kg	0.03	A-T-019s	0.29	0.31	0.29
Naphthalene	mg/kg	0.03	A-T-019s	<0.03	<0.03	<0.03
Phenanthrene	mg/kg	0.03	A-T-019s	0.67	0.49	0.48
Pyrene	mg/kg	0.07	A-T-019s	0.91	0.8	0.86
Total PAH-16MS	mg/kg	0.01	A-T-019s	5.34	4.86	4.89
TPH Banded 2 with ID + GC						
Trace						
>C6-C10	mg/kg	5	A-T-007s	<5	<5	<5
>C10-C25	mg/kg	5	A-T-007s	234	28	23
>C25-C40	mg/kg	5	A-T-007s	39	38	40

TPH FID Chromatogram			A-T-007s	Appended	Appended	Appended
				C12-C40 hydrocarbons with unknown profile	C12-C40 hydrocarbons with some PAHs and humic substances	C16-C40 hydrocarbons with some PAHs and humic substances
TPH ID Interpretation			A-T-007s			
Total TPH Banded 2 with ID + GC Trace						
	mg/kg	5	A-T-007s	273	66	63

22/08265/4

West

Soil

4AE

20

<0.1

5.84

<10

<0.01

1000

<1

<0.2

420

5.35

38

<1.0

1

67

50

159

<0.17

23

2

129

NAD

-

-

N/A

0.08

<0.01

0.19

0.45

0.41

0.4

0.25

0.15

0.55

0.06

1.13

0.06

0.29

<0.03

0.7

0.98

5.7

<5

29

45

Appended
C16-C40
hydrocarbons
with some
PAHs and
humic
substances