

MURRAY RIX

33C Vauxhall Ind. Estate, Greg Street
 Reddish, Stockport SK5 7BR
 TEL 0161 475 0870 FAX 0161 475 0871



TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

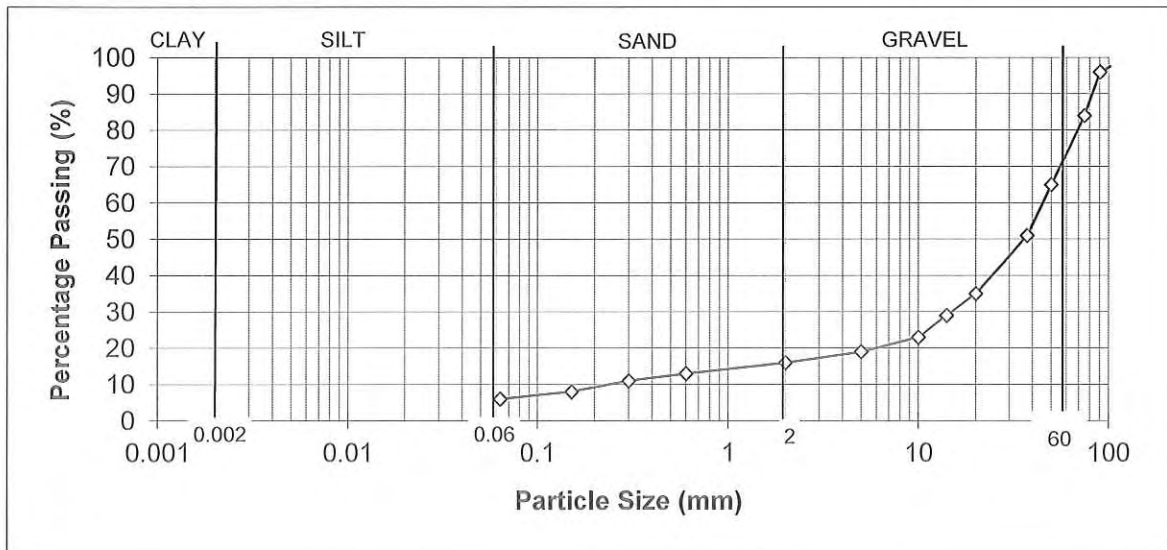
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	Urban Regen Ltd
SITE	Upper Heyford
JOB NUMBER	MRN 2305/80

SAMPLE LABEL	B31-Sample-3	DATE SAMPLED	22-Oct-14
LAB SAMPLE No	59918	DATE RECEIVED	22-Oct-14
DATE TESTED	23-Oct-14	SAMPLED BY	Murray Rix

MATERIAL	6F2
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	23	15-60
90	96	80-100	5	19	10-45
75	84	65-100	2	16	
50	65		0.6	13	0-25
37.5	51	45-100	0.3	11	
20	35		0.15	8	
14	29		0.063	6	0-12



REMARKS

As received moisture content = 7.8%

Sample complies with the advised grading specification for a 6F2 material (SHW 2009)

SIGNED

NAME

A Richardson
 (Deputy Laboratory Manager)

DATE

04-Nov-14

MURRAY RIX

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TEST CERTIFICATE PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

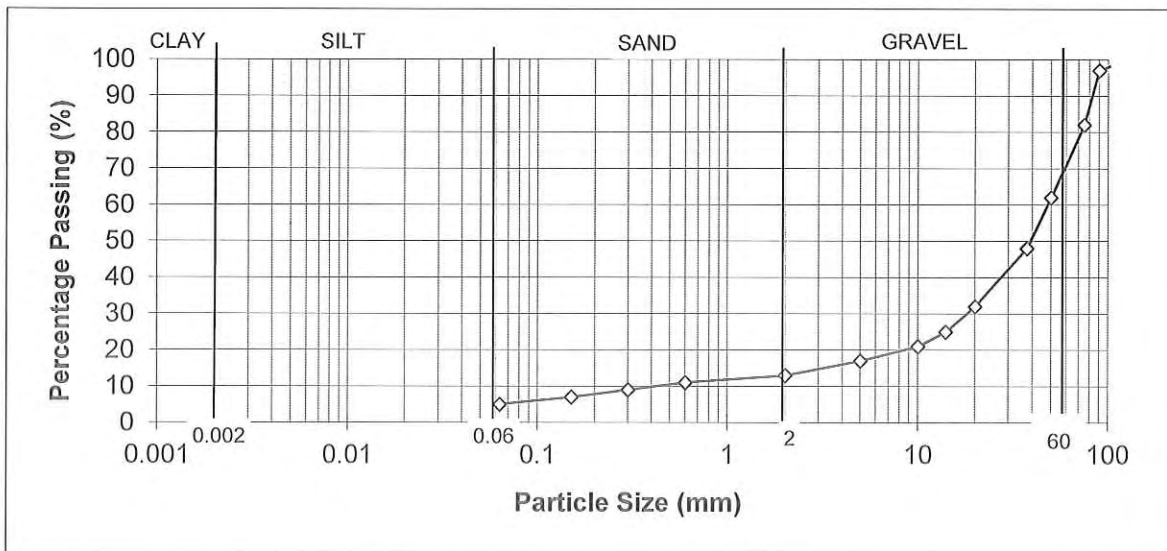
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	Urban Regen Ltd
SITE	Upper Heyford
JOB NUMBER	MRN 2305/80

SAMPLE LABEL	B32-Sample-1	DATE SAMPLED	22-Oct-14
LAB SAMPLE No	59919	DATE RECEIVED	22-Oct-14
DATE TESTED	23-Oct-14	SAMPLED BY	Murray Rix

MATERIAL	6F2
ADVISED SOURCE	Site Won

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	21	15-60
90	97	80-100	5	17	10-45
75	82	65-100	2	13	
50	62		0.6	11	0-25
37.5	48	45-100	0.3	9	
20	32		0.15	7	
14	25		0.063	5	0-12



REMARKS

As received moisture content = 7.5%

Sample complies with the advised grading specification for a 6F2 material (SHW 2009)

SIGNED

NAME

A Richardson
 (Deputy Laboratory Manager)

DATE

04-Nov-14



Jones Environmental Laboratory

Registered Address : Unit 3 Deeside Point, Zone 3, Deeside Industrial Park, Deeside, CH5 2UA. UK

Unit 3 Deeside Point
Zone 3
Deeside Industrial Park
Deeside
CH5 2UA

Smith Grant LLP
Station House
Station Road
Ruabon
Wrexham
LL14 6DL

Tel: +44 (0) 1244 833780

Fax: +44 (0) 1244 833781



Attention : Dan Wayland
Date : 6th November, 2014
Your reference : R1742B
Our reference : Test Report 14/12802 Batch 1
Location : Upper Heyford (Dorchester)
Date samples received : 23rd October, 2014
Status : Final report
Issue : 1

Twenty three samples were received for analysis on 23rd October, 2014 of which twenty three were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Bruce Leslie
Project Co-ordinator

Bob Millward BSc FRSC
Principal Chemist

Client Name: Smith Grant LLP
 Reference: R1742B
 Location: Upper Heyford (Dorchester)
 Contact: Dan Wayland
 JE Job No.: 14/12802

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	Please see attached notes for all abbreviations and acronyms		
Sample ID	SUB-4	DIB-AGG-CENTREL	DIB-SS59	DIB-SS60	DIB-SS63	DIB-SS64	DIB-SS67	DIB-SS68	DIB-SS70	DIB-SS71			
Depth													
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	LOD/LOR	Units	Method No.
Antimony	2	4	1	3	<1	2	<1	1	<1	2	<1	mg/kg	TM30/PM15
Arsenic ^{#M}	18.7	14.8	24.3	26.1	11.5	28.1	18.2	15.1	12.4	27.2	<0.5	mg/kg	TM30/PM15
Barium ^{#M}	96	87	84	103	18	60	45	78	25	94	<1	mg/kg	TM30/PM15
Beryllium	1.1	0.8	1.5	1.5	0.5	1.4	0.9	1.1	0.5	1.7	<0.5	mg/kg	TM30/PM15
Cadmium ^{#M}	0.2	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Chromium ^{#M}	34.6	40.6	42.2	48.4	16.8	56.5	31.2	36.2	18.3	49.8	<0.5	mg/kg	TM30/PM15
Cobalt ^{#M}	8.7	5.2	9.8	12.4	4.1	7.6	8.2	9.1	4.9	12.1	<0.5	mg/kg	TM30/PM15
Copper ^{#M}	14	<1	5	<1	<1	<1	<1	1	<1	<1	<1	mg/kg	TM30/PM15
Lead ^{#M}	27	55	10	20	<5	37	8	10	<5	12	<5	mg/kg	TM30/PM15
Mercury ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Molybdenum ^{#M}	1.9	2.0	1.9	2.2	0.6	1.3	1.6	1.4	1.0	2.0	<0.1	mg/kg	TM30/PM15
Nickel ^{#M}	19.1	15.1	23.5	27.1	8.1	24.7	19.4	22.3	10.8	27.7	<0.7	mg/kg	TM30/PM15
Selenium ^{#M}	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	TM30/PM15
Vanadium	56	44	99	99	51	111	52	62	35	119	<1	mg/kg	TM30/PM15
Water Soluble Boron ^{#M}	1.3	2.7	1.7	2.9	2.0	0.8	0.9	1.4	1.2	1.3	<0.1	mg/kg	TM74/PM32
Zinc ^{#M}	86	86	47	76	18	97	49	621	20	55	<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene ^{#M}	<0.04	<0.40 _A	<0.04	<0.04	<0.04	0.05	<0.04	0.05	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.03	<0.30 _A	<0.03	<0.03	<0.03	0.19	<0.03	0.12	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene ^{#M}	<0.05	<0.50 _A	<0.05	<0.05	<0.05	0.09	<0.05	0.70	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene ^{#M}	<0.04	<0.40 _A	<0.04	<0.04	<0.04	0.07	<0.04	0.55	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene ^{#M}	0.65	3.11 _A	0.30	<0.03	<0.03	2.02	<0.03	9.42	<0.03	0.06	<0.03	mg/kg	TM4/PM8
Anthracene [#]	0.22	0.81 _A	0.10	<0.04	<0.04	0.71	<0.04	2.72	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Fluoranthene ^{#M}	1.70	5.74 _A	0.83	0.05	0.03	4.03	<0.03	9.21	<0.03	0.33	<0.03	mg/kg	TM4/PM8
Pyrene [#]	1.48	4.84 _A	0.71	0.03	0.03	3.36	<0.03	7.10	<0.03	0.33	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene [#]	0.90	2.11 _A	0.32	<0.06	<0.06	1.79	<0.06	2.79	<0.06	0.22	<0.06	mg/kg	TM4/PM8
Chrysene ^{#M}	0.95	2.27 _A	0.52	0.02	0.02	1.65	<0.02	3.04	<0.02	0.21	<0.02	mg/kg	TM4/PM8
Benzo(b)fluoranthene ^{#M}	1.79	3.15 _A	0.43	<0.07	<0.07	2.68	<0.07	4.68	<0.07	0.33	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene [#]	1.20	1.38 _A	0.24	<0.04	<0.04	1.78	<0.04	3.12	<0.04	0.19	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene ^{#M}	0.73	0.93 _A	0.14	<0.04	<0.04	0.86	<0.04	2.01	<0.04	0.11	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene [#]	0.08	<0.40 _A	<0.04	<0.04	<0.04	0.11	<0.04	0.16	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene [#]	0.60	0.83 _A	0.12	<0.04	<0.04	0.80	<0.04	1.38	<0.04	0.11	<0.04	mg/kg	TM4/PM8
PAH 16 Total	10.3	25.2 _A	3.7	<0.6	<0.6	20.2	<0.6	47.1	<0.6	1.9	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	1.29	2.27 _A	0.31	<0.05	<0.05	1.93	<0.05	3.37	<0.05	0.24	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.50	0.88 _A	0.12	<0.02	<0.02	0.75	<0.02	1.31	<0.02	0.09	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	104	95 _A	101	102	105	95	103	95	103	103	<0	%	TM4/PM8

Client Name: Smith Grant LLP
Reference: R1742B
Location: Upper Heyford (Dorchester)
Contact: Dan Wayland
JE Job No.: 14/12802

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	Please see attached notes for all abbreviations and acronyms		
Sample ID	SUB-4	DIB-AGG-CENTREL	DIB-SS59	DIB-SS60	DIB-SS63	DIB-SS64	DIB-SS67	DIB-SS68	DIB-SS70	DIB-SS71			
Depth													
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	LOD/LOR	Units	Method No.
TPH CWG													
Aliphatics													
>C5-C6 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 ^{#M}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>C12-C16 ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>C16-C21 ^{#M}	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>C21-C35 ^{#M}	<7	46	<7	<7	<7	68	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	<19	46	<19	<19	<19	68	<19	<19	<19	<19	<19	mg/kg	TM5/PM16
Aromatics													
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>EC12-EC16	<4	<4	<4	<4	<4	7	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>EC16-EC21	22	21	50	<7	<7	109	<7	15	<7	<7	<7	mg/kg	TM5/PM16
>EC21-EC35	145	165	167	<7	<7	418	<7	12	<7	<7	<7	mg/kg	TM5/PM16
Total aromatics C5-35	167	186	217	<19	<19	534	<19	27	<19	<19	<19	mg/kg	TM5/PM16
Total aliphatics and aromatics(C5-35)	167	232	217	<38	<38	602	<38	<38	<38	<38	<38	mg/kg	TM5/PM16
MTBE #													
MTBE #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Benzene #													
Benzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Toluene #													
Toluene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Ethylbenzene #													
Ethylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
m/p-Xylene #													
m/p-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
o-Xylene #													
o-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
PCBs (Total vs Aroclor 1254)													
PCBs (Total vs Aroclor 1254)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Natural Moisture Content													
Natural Moisture Content	15.6	12.4	20.0	15.5	9.3	14.7	13.4	17.8	11.1	17.2	<0.1	%	PM4/PM0
Hexavalent Chromium #													
Hexavalent Chromium #	<0.3	0.6	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM20
Free Cyanide													
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Complex Cyanide													
Complex Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Organic Matter													
Organic Matter	1.8	1.6	0.8	1.2	0.2	1.6	0.3	0.8	0.3	1.1	<0.2	%	TM21/PM24
Electrical Conductivity @25C (5:1 ext)													
Electrical Conductivity @25C (5:1 ext)	278	512	236	256	160	603	143	145	108	139	<100	uS/cm	TM76/PM58
pH ^{#M}													
pH ^{#M}	8.07	11.69	8.38	8.23	8.61	8.77	8.73	8.63	8.91	8.71	<0.01	pH units	TM73/PM11
Sample Type													
Sample Type	Clay	Loamy Sand	Clay	Clay	Clay	Clayey Sand	Sand	Clay	Clay	Clay		None	PM13/PM0
Sample Colour													
Sample Colour	Light Brown	Medium Brown	Medium Brown	Medium Brown	Light Brown	Medium Brown	Medium Brown	Medium Brown	Light Brown	Light Brown		None	PM13/PM0
Other Items													
Other Items	stones	roots, stones	stones	stones	stones, sand	stones	NA	stones	stones, sand	stones		None	PM13/PM0

Please include all sections of this report if it is reproduced

Jones Environmental Laboratory

Client Name: Smith Grant LLP
Reference: R1742B
Location: Upper Heyford (Dorchester)
Contact: Dan Wayland
JE Job No.: 14/12802

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	21	22	23	24	25	26	27	28	29	30	Please see attached notes for all abbreviations and acronyms		
Sample ID	DIB-SS38A	DIB-SS38B	DIB-SS38C	DIB-SS38D	DIB-SS41A	DIB-SS41B	DIB-SS41C	DIB-SS41D	DIB-SS42A	DIB-SS42B			
Depth													
COC No / misc													
Containers	J	J	J	J	J	J	J	J	J	J			
Sample Date	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	LOD/LOR	Units	Method No.
Antimony	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM15
Arsenic ^{#M}	16.6	16.1	21.9	13.9	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM15
Barium ^{#M}	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM15
Beryllium	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM15
Cadmium ^{#M}	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM15
Chromium ^{#M}	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM15
Cobalt ^{#M}	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM15
Copper ^{#M}	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM15
Lead ^{#M}	-	-	-	-	-	-	-	-	16	7	<5	mg/kg	TM30/PM15
Mercury ^{#M}	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM15
Molybdenum ^{#M}	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM15
Nickel ^{#M}	-	-	-	-	-	-	-	-	-	-	<0.7	mg/kg	TM30/PM15
Selenium ^{#M}	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM15
Vanadium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM15
Water Soluble Boron ^{#M}	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM74/PM32
Zinc ^{#M}	-	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene ^{#M}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	0.05	0.12	<0.03	0.04	<0.03	<0.03	<0.03	-	-	<0.03	mg/kg	TM4/PM8
Acenaphthene ^{#M}	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	-	-	<0.05	mg/kg	TM4/PM8
Fluorene ^{#M}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	<0.04	mg/kg	TM4/PM8
Phenanthrene ^{#M}	0.05	0.19	0.14	0.03	0.43	<0.03	<0.03	<0.03	-	-	<0.03	mg/kg	TM4/PM8
Anthracene [#]	<0.04	0.09	0.12	<0.04	0.19	<0.04	<0.04	<0.04	-	-	<0.04	mg/kg	TM4/PM8
Fluoranthene ^{#M}	0.17	0.86	1.68	0.08	1.49	<0.03	0.03	<0.03	-	-	<0.03	mg/kg	TM4/PM8
Pyrene [#]	0.17	0.93	1.57	0.07	1.45	<0.03	0.03	<0.03	-	-	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene [#]	0.10	0.58	1.32	<0.06	0.78	<0.06	<0.06	<0.06	-	-	<0.06	mg/kg	TM4/PM8
Chrysene ^{#M}	0.13	0.58	1.44	0.06	0.83	<0.02	<0.02	<0.02	-	-	<0.02	mg/kg	TM4/PM8
Benzo(k)fluoranthene ^{#M}	0.20	1.52	2.82	<0.07	1.75	<0.07	<0.07	<0.07	-	-	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene [#]	0.13	1.08	1.96	0.06	1.23	<0.04	<0.04	<0.04	-	-	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene ^{#M}	0.09	0.66	1.19	<0.04	0.75	<0.04	<0.04	<0.04	-	-	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene [#]	<0.04	0.09	0.12	<0.04	0.09	<0.04	<0.04	<0.04	-	-	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene [#]	0.09	0.57	1.07	<0.04	0.66	<0.04	<0.04	<0.04	-	-	<0.04	mg/kg	TM4/PM8
PAH 16 Total	1.1	7.2	13.6	<0.6	9.8	<0.6	<0.6	<0.6	-	-	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	0.14	1.09	2.03	<0.05	1.26	<0.05	<0.05	<0.05	-	-	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.06	0.43	0.79	<0.02	0.49	<0.02	<0.02	<0.02	-	-	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	95	100	97	105	94	101	93	94	-	-	<0	%	TM4/PM8

Client Name: Smith Grant LLP
Reference: R1742B
Location: Upper Heyford (Dorchester)
Contact: Dan Wayland
JE Job No.: 14/12802

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	21	22	23	24	25	26	27	28	29	30			
Sample ID	DIB-SS38A	DIB-SS38B	DIB-SS38C	DIB-SS38D	DIB-SS41A	DIB-SS41B	DIB-SS41C	DIB-SS41D	DIB-SS42A	DIB-SS42B			
Depth													
COC No / misc													
Containers	J	J	J	J	J	J	J	J	J	J			
Sample Date	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014	22/10/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	LOD/LOR	Units	Method No.
TPH CWG													
Aliphatics													
>C5-C6 ^{#M}	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM36/PM12
>C6-C8 ^{#M}	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM36/PM12
>C8-C10	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM36/PM12
>C10-C12 ^{#M}	-	-	-	-	-	-	-	-	-	-	<0.2	mg/kg	TM5/PM16
>C12-C16 ^{#M}	-	-	-	-	-	-	-	-	-	-	<4	mg/kg	TM5/PM16
>C16-C21 ^{#M}	-	-	-	-	-	-	-	-	-	-	<7	mg/kg	TM5/PM16
>C21-C35 ^{#M}	-	-	-	-	-	-	-	-	-	-	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	-	-	-	-	-	-	-	-	-	-	<19	mg/kg	TM5/PM16/PM12/PM15
Aromatics													
>C5-EC7	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM36/PM12
>EC7-EC8	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM36/PM12
>EC8-EC10 ^{#M}	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM36/PM12
>EC10-EC12	-	-	-	-	-	-	-	-	-	-	<0.2	mg/kg	TM5/PM16
>EC12-EC16	-	-	-	-	-	-	-	-	-	-	<4	mg/kg	TM5/PM16
>EC16-EC21	-	-	-	-	-	-	-	-	-	-	<7	mg/kg	TM5/PM16
>EC21-EC35	-	-	-	-	-	-	-	-	-	-	<7	mg/kg	TM5/PM16
Total aromatics C5-35	-	-	-	-	-	-	-	-	-	-	<19	mg/kg	TM5/PM16/PM12/PM15
Total aliphatics and aromatics(C5-35)	-	-	-	-	-	-	-	-	-	-	<38	mg/kg	TM5/PM16/PM12/PM15
MTBE [#]	-	-	-	-	-	-	-	-	-	-	<5	ug/kg	TM31/PM12
Benzene [#]	-	-	-	-	-	-	-	-	-	-	<5	ug/kg	TM31/PM12
Toluene [#]	-	-	-	-	-	-	-	-	-	-	<5	ug/kg	TM31/PM12
Ethylbenzene [#]	-	-	-	-	-	-	-	-	-	-	<5	ug/kg	TM31/PM12
m/p-Xylene [#]	-	-	-	-	-	-	-	-	-	-	<5	ug/kg	TM31/PM12
o-Xylene [#]	-	-	-	-	-	-	-	-	-	-	<5	ug/kg	TM31/PM12
PCBs (Total vs Aroclor 1254)	-	-	-	-	-	-	-	-	-	-	<10	ug/kg	TM16/PM8
Natural Moisture Content	13.7	15.7	19.8	13.0	11.9	8.4	8.5	10.3	-	-	<0.1	%	PM4/PM0
Hexavalent Chromium [#]	-	-	-	-	-	-	-	-	-	-	<0.3	mg/kg	TM38/PM20
Free Cyanide	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM89/PM45
Complex Cyanide	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM89/PM45
Organic Matter	-	-	-	-	-	-	-	-	-	-	<0.2	%	TM21/PM24
Electrical Conductivity @25C (5:1 ext)	-	-	-	-	-	-	-	-	-	-	<100	uS/cm	TM76/PM58
pH ^{#M}	-	-	-	-	-	-	-	-	-	-	<0.01	pH units	TM73/PM11
Sample Type	Clay	Clay	Clay	Clay	Loamy Sand	Sand	Clayey Loam	Clayey Loam	Clayey Loam	Clay		None	PM13/PM0
Sample Colour	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Medium Brown	Light Brown		None	PM13/PM0
Other Items	stones, roots	stones, sand	roots	stones	stones	stones	stones	stones	stones, roots	stones		None	PM13/PM0

Please see attached notes for all abbreviations and acronyms

Client Name: Smith Grant LLP
 Reference: R1742B
 Location: Upper Heyford (Dorchester)
 Contact: Dan Wayland
 JE Job No.: 14/12802

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
 H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

J E Sample No.	33-35	Sample ID	DRAIN-1	Depth	COC No / misc	Containers	V G	Sample Date	22/10/2014	Sample Type	Ground Water	Batch Number	1	Date of Receipt	23/10/2014	Please see attached notes for all abbreviations and acronyms		
																LOD/LOR	Units	Method No.
Dissolved Arsenic #	<0.9															<0.9	ug/l	TM30/PM14
Dissolved Boron	105															<2	ug/l	TM30/PM14
Dissolved Cadmium #	<0.03															<0.03	ug/l	TM30/PM14
Total Dissolved Chromium #	6.5															<0.2	ug/l	TM30/PM14
Dissolved Copper #	<3															<3	ug/l	TM30/PM14
Dissolved Lead #	3.0															<0.4	ug/l	TM30/PM14
Dissolved Nickel #	0.9															<0.2	ug/l	TM30/PM14
Dissolved Selenium #	<1.2															<1.2	ug/l	TM30/PM14
Dissolved Zinc #	1.7															<1.5	ug/l	TM30/PM14
Mercury Dissolved by CVAF #	<0.01															<0.01	ug/l	TM61/PM38
EPH (C8-C40) #	<10															<10	ug/l	TM5/PM30
Hexavalent Chromium	6															<2	ug/l	TM38/PM0
Total Dissolved Chromium III	<2															<2	ug/l	NONE/NONE

Client Name: Smith Grant LLP
Reference: R1742B
Location: Upper Heyford (Dorchester)
Contact: Dan Wayland
JE Job No.: 14/12802

SVOC Report : Liquid

J E Sample No.	33-35									LOD/LOR	Units	Method No.
Sample ID	DRAIN-1											
Depth												
COC No / misc Containers	V G											
Sample Date	22/10/2014											
Sample Type	Ground Water											
Batch Number	1											
Date of Receipt	23/10/2014											
SVOC MS												
Phenols												
2-Chlorophenol #	<1									<1	ug/l	TM16/PM30
2-Methylphenol #	<0.5									<0.5	ug/l	TM16/PM30
2-Nitrophenol	<0.5									<0.5	ug/l	TM16/PM30
2,4-Dichlorophenol #	<0.5									<0.5	ug/l	TM16/PM30
2,4-Dimethylphenol	<1									<1	ug/l	TM16/PM30
2,4,5-Trichlorophenol #	<0.5									<0.5	ug/l	TM16/PM30
2,4,6-Trichlorophenol	<1									<1	ug/l	TM16/PM30
4-Chloro-3-methylphenol #	<0.5									<0.5	ug/l	TM16/PM30
4-Methylphenol	<1									<1	ug/l	TM16/PM30
4-Nitrophenol	<10									<10	ug/l	TM16/PM30
Pentachlorophenol	<1									<1	ug/l	TM16/PM30
Phenol	<1									<1	ug/l	TM16/PM30
PAHs												
2-Chloronaphthalene #	<1									<1	ug/l	TM16/PM30
2-Methylnaphthalene #	<1									<1	ug/l	TM16/PM30
Naphthalene #	<1									<1	ug/l	TM16/PM30
Acenaphthylene #	<0.5									<0.5	ug/l	TM16/PM30
Acenaphthene #	<1									<1	ug/l	TM16/PM30
Fluorene #	<0.5									<0.5	ug/l	TM16/PM30
Phenanthrene #	<0.5									<0.5	ug/l	TM16/PM30
Anthracene #	<0.5									<0.5	ug/l	TM16/PM30
Fluoranthene #	<0.5									<0.5	ug/l	TM16/PM30
Pyrene #	<0.5									<0.5	ug/l	TM16/PM30
Benzo(a)anthracene #	<0.5									<0.5	ug/l	TM16/PM30
Chrysene #	<0.5									<0.5	ug/l	TM16/PM30
Benzo(bk)fluoranthene #	<1									<1	ug/l	TM16/PM30
Benzo(a)pyrene	<1									<1	ug/l	TM16/PM30
Indeno(123cd)pyrene	<1									<1	ug/l	TM16/PM30
Dibenzo(ah)anthracene #	<0.5									<0.5	ug/l	TM16/PM30
Benzo(ghi)perylene #	<0.5									<0.5	ug/l	TM16/PM30
Phthalates												
Bis(2-ethylhexyl) phthalate	<5									<5	ug/l	TM16/PM30
Butylbenzyl phthalate	<1									<1	ug/l	TM16/PM30
Di-n-butyl phthalate #	<1.5									<1.5	ug/l	TM16/PM30
Di-n-Octyl phthalate	<1									<1	ug/l	TM16/PM30
Diethyl phthalate #	<1									<1	ug/l	TM16/PM30
Dimethyl phthalate	<1									<1	ug/l	TM16/PM30

Please see attached notes for all abbreviations and acronyms

Client Name: Smith Grant LLP
 Reference: R1742B
 Location: Upper Heyford (Dorchester)
 Contact: Dan Wayland
 JE Job No.: 14/12802

SVOC Report : Liquid

J E Sample No.	33-35											
Sample ID	DRAIN-1											
Depth												
COC No / misc Containers	V G											
Sample Date	22/10/2014											
Sample Type	Ground Water											
Batch Number	1											
Date of Receipt	23/10/2014											
Please see attached notes for all abbreviations and acronyms												
										LOD/LOR	Units	Method No.
SVOC MS												
Other SVOCs												
1,2-Dichlorobenzene #	<1									<1	ug/l	TM16/PM30
1,2,4-Trichlorobenzene #	<1									<1	ug/l	TM16/PM30
1,3-Dichlorobenzene #	<1									<1	ug/l	TM16/PM30
1,4-Dichlorobenzene #	<1									<1	ug/l	TM16/PM30
2-Nitroaniline	<1									<1	ug/l	TM16/PM30
2,4-Dinitrotoluene #	<0.5									<0.5	ug/l	TM16/PM30
2,6-Dinitrotoluene	<1									<1	ug/l	TM16/PM30
3-Nitroaniline	<1									<1	ug/l	TM16/PM30
4-Bromophenylphenylether #	<1									<1	ug/l	TM16/PM30
4-Chloroaniline	<1									<1	ug/l	TM16/PM30
4-Chlorophenylphenylether #	<1									<1	ug/l	TM16/PM30
4-Nitroaniline	<0.5									<0.5	ug/l	TM16/PM30
Azobenzene #	<0.5									<0.5	ug/l	TM16/PM30
Bis(2-chloroethoxy)methane #	<0.5									<0.5	ug/l	TM16/PM30
Bis(2-chloroethyl)ether #	<1									<1	ug/l	TM16/PM30
Carbazole #	<0.5									<0.5	ug/l	TM16/PM30
Dibenzofuran #	<0.5									<0.5	ug/l	TM16/PM30
Hexachlorobenzene #	<1									<1	ug/l	TM16/PM30
Hexachlorobutadiene #	<1									<1	ug/l	TM16/PM30
Hexachlorocyclopentadiene	<1									<1	ug/l	TM16/PM30
Hexachloroethane #	<1									<1	ug/l	TM16/PM30
Isophorone #	<0.5									<0.5	ug/l	TM16/PM30
N-nitrosodi-n-propylamine #	<0.5									<0.5	ug/l	TM16/PM30
Nitrobenzene #	<1									<1	ug/l	TM16/PM30

Client Name: Smith Grant LLP
Reference: R1742B
Location: Upper Heyford (Dorchester)
Contact: Dan Wayland

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Analysis	Reason
No deviating sample report results for job 14/12802						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 14/12802

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Please include all sections of this report if it is reproduced

All solid results are expressed on a dry weight basis unless stated otherwise.

ABBREVIATIONS and ACRONYMS USED

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
OC	Outside Calibration Range
A	x10 Dilution

JE Job No: 14/12802

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465 and BS1377.	PM0	No preparation is required.				
TM4	Modified USEPA 8270 method for the solvent extraction and determination of 16 PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270 method for the solvent extraction and determination of 16 PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM4	Modified USEPA 8270 method for the solvent extraction and determination of 16 PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes	Yes	AR	Yes
TM5	Modified USEPA 8015B method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) with carbon banding within the range C8-C40 GC-FID.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5	Modified USEPA 8015B method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) with carbon banding within the range C8-C40 GC-FID.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes	Yes	AR	Yes
TM5	Modified USEPA 8015B method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) with carbon banding within the range C8-C40 GC-FID.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM5/TM36	TM005: Modified USEPA 8015B. Determination of solvent Extractable Petroleum Hydrocarbons (EPH) including column fractionation in the carbon range of C10-35 into aliphatic and aromatic fractions by GC-FID. TM036: Modified USEPA 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C5-10 by headspace GC-FID.	PM12/PM16	CWG GC-FID			AR	Yes
PM13	A visual examination of the solid sample is carried out to ascertain sample make up, colour and any other inclusions. This is not a geotechnical description.	PM0	No preparation is required.			AR	
TM16	Modified USEPA 8270. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				

JE Job No: 14/12802

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM16	Modified USEPA 8270. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM16	Modified USEPA 8270. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM21	Modified USEPA 415.1. Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.			AD	Yes
TM30	Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7	PM14	Analysis of waters and leachates for metals by ICP OES. Samples are filtered for dissolved metals and acidified if required.				
TM30	Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7	PM14	Analysis of waters and leachates for metals by ICP OES. Samples are filtered for dissolved metals and acidified if required.	Yes			
TM30	Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.			AD	Yes
TM30	Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes	Yes	AD	Yes
TM31	Modified USEPA 8015B. Determination of Methylterbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID.	PM12	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM31	Modified USEPA 8015B. Determination of Methylterbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID.	PM12	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM36	Modified US EPA method 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID.	PM12	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

JE Job No: 14/12802

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM36	Modified US EPA method 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID.	PM12	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.	Yes	Yes	AR	Yes
TM38	Soluble Ion analysis using the Thermo Aquakem Photometric Automatic Analyser. Modified US EPA methods 325.2, 375.4, 365.2, 353.1, 354.1	PM0	No preparation is required.				
TM38	Soluble Ion analysis using the Thermo Aquakem Photometric Automatic Analyser. Modified US EPA methods 325.2, 375.4, 365.2, 353.1, 354.1	PM20	Extraction of dried and ground samples with deionised water in a 2:1 water to solid ratio for anions. Extraction of as received samples with deionised water in a 2:1 water to solid ratio for ammoniacal nitrogen. Samples are extracted using an orbital shaker.	Yes		AR	Yes
TM61	Modified US EPA methods 245.7 and 200.7. Determination of Mercury by Cold Vapour Atomic Fluorescence.	PM38	Samples are brominated to reduce all mercury compounds to Mercury (II) which is analysed using method TM061.	Yes			
TM73	Modified US EPA methods 150.1 and 9045D. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes	Yes	AR	No
TM74	Analysis of water soluble boron (20:1 extract) by ICP-OES.	PM32	Hot water soluble boron is extracted from dried and ground samples using a 20:1 ratio.	Yes	Yes	AD	Yes
TM76	Modified US EPA method 120.1. Determination of Specific Conductance by Metrohm automated probe analyser.	PM58	Dried and ground solid samples are extracted with water in a 5:1 water to solid ratio, the samples are shaken on an orbital shaker.			AD	Yes
TM89	Modified USEPA method OIA-1667. Determination of cyanide by Flow Injection Analyser.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide and Thiocyanate analysis.			AR	Yes
NONE	No Method Code	NONE	No Method Code				



Jones Environmental Laboratory

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Attention : Dan Wayland
Date : 7th October, 2014
Your reference : R1742B (Dorchester)
Our reference : Test Report 14/11667 Batch 1
Location : Heyford Park
Date samples received : 25th September, 2014
Status : Final report
Issue : 1

Twenty samples were received for analysis on 25th September, 2014 of which twenty were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Phil Sommerton BSc
Project Manager

Bob Millward BSc FRSC
Principal Chemist

Jones Environmental Laboratory

Client Name: Smith Grant LLP
Reference: R1742B (Dorchester)
Location: Heyford Park
Contact: Dan Wayland
JE Job No.: 14/11667

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS36	D1B-SS37	D1B-SS38	D1B-SS39	D1B-SS40	D1B-SS41	D1B-SS42	D1B-SS43	D1B-SS46	D1B-SS47	LOD/LOR	Units	Method No.
Depth	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014			
Antimony	<1	<1	1	<1	<1	<1	2	<1	1	<1	<1	mg/kg	TM30/PM15
Arsenic ^{#M}	14.0	16.3	40.7	14.7	17.7	19.2	23.9	12.8	21.8	14.9	<0.5	mg/kg	TM30/PM15
Barium ^{#M}	52	47	103	35	63	66	44	36	154	42	<1	mg/kg	TM30/PM15
Beryllium	0.6	0.7	1.2	0.7	0.9	1.0	1.3	0.5	1.1	0.7	<0.5	mg/kg	TM30/PM15
Cadmium ^{#M}	0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	mg/kg	TM30/PM15
Chromium ^{#M}	17.7	20.1	35.0	16.7	24.9	25.6	50.2	16.5	28.6	17.3	<0.5	mg/kg	TM30/PM15
Cobalt ^{#M}	5.1	6.4	9.9	5.3	7.4	12.1	8.9	4.0	9.8	6.0	<0.5	mg/kg	TM30/PM15
Copper ^{#M}	8	7	17	7	10	12	6	7	18	8	<1	mg/kg	TM30/PM15
Lead ^{#M}	22	15	41	13	17	18	613	12	40	17	<5	mg/kg	TM30/PM15
Mercury ^{#M}	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Molybdenum ^{#M}	0.9	0.7	1.2	0.5	0.7	1.6	0.8	0.9	1.1	0.9	<0.1	mg/kg	TM30/PM15
Nickel ^{#M}	12.1	13.3	21.9	11.0	15.7	23.8	25.7	10.8	20.4	12.6	<0.7	mg/kg	TM30/PM15
Selenium ^{#M}	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	TM30/PM15
Vanadium	41	49	84	48	65	75	91	34	53	44	<1	mg/kg	TM30/PM15
Water Soluble Boron ^{#M}	1.5	1.2	1.7	0.8	1.4	1.7	1.7	1.1	2.6	1.3	<0.1	mg/kg	TM74/PM32
Zinc ^{#M}	64	44	112	29	47	57	70	51	107	50	<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene ^{#M}	<0.04	<0.80 _A	<0.04	<0.04	<0.04	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.04	1.21 _A	0.14	<0.03	<0.03	0.07	<0.03	0.04	<0.03	0.05	<0.03	mg/kg	TM4/PM8
Acenaphthene ^{#M}	<0.05	7.31 _A	<0.05	<0.05	<0.05	0.34	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene ^{#M}	<0.04	5.20 _A	0.04	<0.04	<0.04	0.27	<0.04	0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene ^{#M}	0.23	42.64 _A	0.63	0.21	<0.03	1.59	0.04	0.48	0.26	0.17	<0.03	mg/kg	TM4/PM8
Anthracene [#]	0.11	14.49 _A	0.27	0.08	<0.04	0.56	<0.04	0.11	0.06	0.08	<0.04	mg/kg	TM4/PM8
Fluoranthene ^{#M}	1.01	77.02 _A	2.21	0.40	0.06	3.02	0.12	0.63	0.82	0.60	<0.03	mg/kg	TM4/PM8
Pyrene [#]	0.92	59.42 _A	1.93	0.32	0.04	2.42	0.10	0.51	0.70	0.51	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene [#]	0.75	29.44 _A	1.35	0.21	<0.06	1.33	0.09	0.29	0.48	0.37	<0.06	mg/kg	TM4/PM8
Chrysene ^{#M}	0.69	25.32 _A	1.33	0.19	0.03	1.11	0.07	0.30	0.51	0.36	<0.02	mg/kg	TM4/PM8
Benzo(b)fluoranthene ^{#M}	1.14	38.79 _A	2.64	0.28	<0.07	1.98	0.10	0.41	0.82	0.55	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene [#]	0.76	25.98 _A	1.67	0.23	0.04	1.35	0.08	0.27	0.56	0.37	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene ^{#M}	0.45	14.04 _A	1.08	0.14	<0.04	0.79	0.04	0.15	0.32	0.25	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene [#]	0.08	1.91 _A	0.23	<0.04	<0.04	0.13	<0.04	<0.04	0.07	0.05	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene [#]	0.44	12.68 _A	1.09	0.12	<0.04	0.79	0.05	0.16	0.37	0.21	<0.04	mg/kg	TM4/PM8
PAH 16 Total	6.6	355.5 _A	14.6	2.2	<0.6	15.8	0.7	3.4	5.0	3.6	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	0.82	27.93 _A	1.90	0.20	<0.05	1.43	0.07	0.30	0.59	0.40	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.32	10.86 _A	0.74	0.08	<0.02	0.55	0.03	0.11	0.23	0.15	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	104	105 _A	102	101	105	106	97	109	102	106	<0	%	TM4/PM8

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Client Name: Smith Grant LLP
 Reference: R1742B (Dorchester)
 Location: Heyford Park
 Contact: Dan Wayland
 JE Job No.: 14/11667

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS36	D1B-SS37	D1B-SS38	D1B-SS39	D1B-SS40	D1B-SS41	D1B-SS42	D1B-SS43	D1B-SS46	D1B-SS47	LOD/LOR	Units	Method No.
Depth	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014			
TPH CWG													
Aliphatics													
>C5-C6 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 ^{#M}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>C12-C16 ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>C16-C21 ^{#M}	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>C21-C35 ^{#M}	65	<7	<7	<7	<7	20	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	65	<19	<19	<19	<19	20	<19	<19	<19	<19	<19	mg/kg	TM5/PM16
Aromatics													
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>EC12-EC16	<4	16	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>EC16-EC21	17	218	24	70	<7	17	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>EC21-EC35	140	178	111	358	<7	101	<7	34	29	39	<7	mg/kg	TM5/PM16
Total aromatics C5-35	157	412	135	428	<19	118	<19	34	29	39	<19	mg/kg	TM5/PM16
Total aliphatics and aromatics(C5-35)	222	412	135	428	<38	138	<38	<38	<38	39	<38	mg/kg	TM5/PM16
MTBE [#]													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Benzene [#]													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Toluene [#]													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Ethylbenzene [#]													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
m/p-Xylene [#]													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
o-Xylene [#]													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
PCBs (Total vs Aroclor 1254)													
	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Natural Moisture Content													
	10.6	9.7	9.1	8.9	10.5	10.6	9.7	8.9	11.2	12.6	<0.1	%	PM4/PM0
Hexavalent Chromium													
	0.6	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM20
Free Cyanide													
	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Complex Cyanide													
	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Organic Matter													
	1.2	1.7	2.7	2.9	1.0	4.2	2.7	0.8	2.5	1.1	<0.2	%	TM21/PM24
Electrical Conductivity @25C (5:1 ext)													
	310	118	126	127	116	218	622	504	174	225	<100	uS/cm	TM76/PM58
pH ^{#M}													
	8.32	8.56	8.25	8.51	8.43	8.26	8.73	10.91	8.28	8.13	<0.01	pH units	TM73/PM11
Sample Type													
	Clayey Loam	Clayey Loam	Clayey Loam	Clayey Loam	Loam	Clayey Loam	Clayey Loam	Loam	Loam	Clayey Loam		None	PM13/PM0
Sample Colour													
	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown		None	PM13/PM0
Other Items													
	Stones	Stones	Stones	Stones, Clay	Stones, Sand	Stones	Stones	Stones	Stones, roots	Stones		None	PM13/PM0

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Jones Environmental Laboratory

Client Name: Smith Grant LLP
Reference: R1742B (Dorchester)
Location: Heyford Park
Contact: Dan Wayland
JE Job No.: 14/11667

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	39-40	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS48	D1B-SS50	D1B-SS51	D1B-SS52	D1B-SS53	D1B-SS54	D1B-SS57	HC-SPILE 1A	HC-SPILE 1B	HC-SPILE 1C			
Depth	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40						
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	LOD/LOR	Units	Method No.
Antimony	<1	<1	<1	<1	<1	<1	<1	-	-	-	<1	mg/kg	TM30/PM15
Arsenic ^{#M}	10.7	11.6	13.6	12.5	14.4	15.0	18.1	-	-	-	<0.5	mg/kg	TM30/PM15
Barium ^{#M}	27	22	23	48	33	41	64	-	-	-	<1	mg/kg	TM30/PM15
Beryllium	0.6	0.5	<0.5	0.5	0.6	0.9	1.0	-	-	-	<0.5	mg/kg	TM30/PM15
Cadmium ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	mg/kg	TM30/PM15
Chromium ^{#M}	11.7	12.5	11.5	13.0	15.1	24.4	25.3	-	-	-	<0.5	mg/kg	TM30/PM15
Cobalt ^{#M}	4.2	4.7	4.1	3.9	4.5	6.4	7.9	-	-	-	<0.5	mg/kg	TM30/PM15
Copper ^{#M}	7	5	5	6	7	7	10	-	-	-	<1	mg/kg	TM30/PM15
Lead ^{#M}	11	5	9	14	10	10	20	-	-	-	<5	mg/kg	TM30/PM15
Mercury ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	mg/kg	TM30/PM15
Molybdenum ^{#M}	1.7	0.6	0.7	0.6	1.2	0.8	0.9	-	-	-	<0.1	mg/kg	TM30/PM15
Nickel ^{#M}	11.0	11.6	9.1	9.4	11.0	14.8	16.4	-	-	-	<0.7	mg/kg	TM30/PM15
Selenium ^{#M}	<1	<1	<1	<1	<1	<1	<1	-	-	-	<1	mg/kg	TM30/PM15
Vanadium	29	33	35	36	40	60	64	-	-	-	<1	mg/kg	TM30/PM15
Water Soluble Boron ^{#M}	1.0	0.7	0.6	1.4	0.8	0.9	1.5	-	-	-	<0.1	mg/kg	TM74/PM32
Zinc ^{#M}	30	22	20	45	36	34	54	-	-	-	<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene ^{#M}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	-	<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	0.03	<0.03	<0.03	-	-	-	<0.03	mg/kg	TM4/PM8
Acenaphthene ^{#M}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	mg/kg	TM4/PM8
Fluorene ^{#M}	0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	-	<0.04	mg/kg	TM4/PM8
Phenanthrene ^{#M}	0.60	<0.03	<0.03	0.27	0.08	<0.03	0.42	-	-	-	<0.03	mg/kg	TM4/PM8
Anthracene [#]	0.19	<0.04	<0.04	0.09	0.04	<0.04	0.11	-	-	-	<0.04	mg/kg	TM4/PM8
Fluoranthene ^{#M}	0.86	<0.03	0.08	0.69	0.27	<0.03	1.01	-	-	-	<0.03	mg/kg	TM4/PM8
Pyrene [#]	0.63	<0.03	0.07	0.56	0.24	<0.03	0.77	-	-	-	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene [#]	0.43	<0.06	0.07	0.35	0.17	<0.06	0.48	-	-	-	<0.06	mg/kg	TM4/PM8
Chrysene ^{#M}	0.38	<0.02	0.05	0.34	0.18	<0.02	0.49	-	-	-	<0.02	mg/kg	TM4/PM8
Benzo(k)fluoranthene ^{#M}	0.50	<0.07	0.09	0.58	0.32	<0.07	0.77	-	-	-	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene [#]	0.33	<0.04	0.05	0.38	0.24	<0.04	0.53	-	-	-	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene ^{#M}	0.19	<0.04	<0.04	0.24	0.20	<0.04	0.32	-	-	-	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene [#]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.05	-	-	-	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene [#]	0.19	<0.04	<0.04	0.23	0.19	<0.04	0.32	-	-	-	<0.04	mg/kg	TM4/PM8
PAH 16 Total	4.4	<0.6	<0.6	3.7	2.0	<0.6	5.3	-	-	-	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	0.36	<0.05	0.06	0.42	0.23	<0.05	0.55	-	-	-	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.14	<0.02	0.03	0.16	0.09	<0.02	0.22	-	-	-	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	105	105	103	98	107	106	106	-	-	-	<0	%	TM4/PM8

Please include all sections of this report if it is reproduced

Client Name: Smith Grant LLP
Reference: R1742B (Dorchester)
Location: Heyford Park
Contact: Dan Wayland
JE Job No.: 14/11667

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	39-40	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS48	D1B-SS50	D1B-SS51	D1B-SS52	D1B-SS53	D1B-SS54	D1B-SS57	HC-SPILE 1A	HC-SPILE 1B	HC-SPILE 1C	LOD/LOR	Units	Method No.
Depth	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40						
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014	24/09/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014	25/09/2014			
TPH CWG													
Aliphatics													
>C5-C6 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 ^{#M}	33.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	11.5	19.5	15.0	<0.2	mg/kg	TM5/PM16
>C12-C16 ^{#M}	71	<4	<4	<4	<4	<4	<4	154	177	130	<4	mg/kg	TM5/PM16
>C16-C21 ^{#M}	<7	<7	<7	<7	<7	<7	<7	141	201	154	<7	mg/kg	TM5/PM16
>C21-C35 ^{#M}	<7	<7	<7	<7	<7	<7	11	386	490	390	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	104	<19	<19	<19	<19	<19	<19	693	888	689	<19	mg/kg	TM5/PM16
Aromatics													
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12	2.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>EC12-EC16	8	<4	<4	<4	<4	<4	22	29	28	21	<4	mg/kg	TM5/PM16
>EC16-EC21	<7	<7	<7	<7	<7	<7	100	102	101	88	<7	mg/kg	TM5/PM16
>EC21-EC35	<7	<7	<7	64	<7	<7	172	304	309	253	<7	mg/kg	TM5/PM16
Total aromatics C5-35	<19	<19	<19	64	<19	<19	294	435	438	362	<19	mg/kg	TM5/PM16
Total aliphatics and aromatics(C5-35)	104	<38	<38	64	<38	<38	294	1128	1326	1051	<38	mg/kg	TM5/PM16
MTBE #													
MTBE #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Benzene #													
Benzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Toluene #													
Toluene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Ethylbenzene #													
Ethylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
m/p-Xylene #													
m/p-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
o-Xylene #													
o-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
PCBs (Total vs Aroclor 1254)													
PCBs (Total vs Aroclor 1254)	<10	<10	<10	<10	<10	<10	<10	-	-	-	<10	ug/kg	TM16/PM8
Natural Moisture Content													
Natural Moisture Content	16.3	9.9	9.9	10.7	10.9	12.2	8.8	13.0	9.1	13.0	<0.1	%	PM4/PM0
Hexavalent Chromium													
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	-	<0.3	mg/kg	TM38/PM20
Free Cyanide													
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.5	mg/kg	TM89/PM45
Complex Cyanide													
Complex Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.5	mg/kg	TM89/PM45
Organic Matter													
Organic Matter	0.5	0.2	0.4	1.4	0.5	0.6	1.4	1.5	0.7	1.6	<0.2	%	TM21/PM24
Electrical Conductivity @25C (5:1 ext)													
Electrical Conductivity @25C (5:1 ext)	210	126	101	305	294	124	145	-	-	-	<100	uS/cm	TM76/PM58
pH ^{#M}													
pH ^{#M}	8.96	8.65	8.64	11.03	8.63	8.42	8.34	-	-	-	<0.01	pH units	TM73/PM11
Sample Type													
Sample Type	Clayey Loam	Loam	Clayey Loam	Sand	Clayey Loam	Clay	Clayey Loam	Clayey Loam	Clayey Loam	Loam		None	PM13/PM0
Sample Colour													
Sample Colour	Medium Brown	Light Brown	Medium Brown	Light Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown		None	PM13/PM0
Other Items													
Other Items	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones, Roots		None	PM13/PM0

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Client Name: Smith Grant LLP
Reference: R1742B (Dorchester)
Location: Heyford Park
Contact: Dan Wayland

Matrix : Solid

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Analysis	Reason
14/11667	1					Samples were received at a temperature above 9°C.

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating.
 Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 14/11667

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

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All solid results are expressed on a dry weight basis unless stated otherwise.

ABBREVIATIONS and ACRONYMS USED

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
OC	Outside Calibration Range
A	x20 Dilution

JE Job No: 14/11667

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465 and BS1377.	PM0	No preparation is required.				
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.			AR	Yes
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.	Yes		AR	Yes
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.	Yes	Yes	AR	Yes
TM5	In-House method based on USEPA 8015B. Determination of Extractable Petroleum Hydrocarbons (EPH) in the carbon chain length range of C8-40 by GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS (carbon banding only) on soils. All accreditation is matrix specific.	PM16	Aliphatic/Aromatic fractionation			AR	Yes
TM5	In-House method based on USEPA 8015B. Determination of Extractable Petroleum Hydrocarbons (EPH) in the carbon chain length range of C8-40 by GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS (carbon banding only) on soils. All accreditation is matrix specific.	PM16	Aliphatic/Aromatic fractionation	Yes	Yes	AR	Yes
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID			AR	Yes
PM13	Soil Typing for MCERTS	PM0	No preparation is required.			AR	
TM16	In-House method based on USEPA 8270. Determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS. Accredited to ISO 17025 for waters. All accreditation is matrix specific. Quantification by Internal Standard method.	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.			AR	Yes
TM21	TOC and TC by Combustion	PM24	Eltra preparation			AD	Yes

JE Job No: 14/11667

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM30	Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry) using Thermo iCAP 6000 series instrument. Accredited to ISO 17025 for soils and waters and MCERTS accredited for Soils. All accreditation is matrix specific.	PM15	In-house method based on USEPA 3010A. Acid digestion of dried and crushed solid samples using Aqua Regia reflux.			AD	Yes
TM30	Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry) using Thermo iCAP 6000 series instrument. Accredited to ISO 17025 for soils and waters and MCERTS accredited for Soils. All accreditation is matrix specific.	PM15	In-house method based on USEPA 3010A. Acid digestion of dried and crushed solid samples using Aqua Regia reflux.	Yes	Yes	AD	Yes
TM31	In-house method based on USEPA 8015B. Determination of Methylterbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID. Accredited to ISO 17025 for soils and waters and MCERTS accredited for soils. Accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific			AR	Yes
TM31	In-house method based on USEPA 8015B. Determination of Methylterbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID. Accredited to ISO 17025 for soils and waters and MCERTS accredited for soils. Accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific	Yes		AR	Yes
TM36	In-House method based on USEPA 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C5-12 by headspace GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS accredited (carbon banding only) on soils. All accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific			AR	Yes
TM36	In-House method based on USEPA 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C5-12 by headspace GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS accredited (carbon banding only) on soils. All accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific	Yes	Yes	AR	Yes
TM38	Ionic analysis using the Thermo Aquakem Photometric Automatic Analyser. Accredited to ISO17025 and MCERTS for most analytes. All accreditation is matrix specific.	PM20	Solid samples are extracted with two parts de-ionised water to one part solid material for analysis of the extract for various parameters.			AR	Yes
TM73	pH in by Metrohm	PM11	1:2.5 soil/water extraction	Yes	Yes	AR	No
TM74	Water Soluble Boron by ICP-OES	PM32	Preparation of soils for WSB	Yes	Yes	AD	Yes
TM76	Electrical Conductivity by Metrohm	PM58	Preparation of sample for Electrical Conductivity			AD	Yes

JE Job No: 14/11667

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM89	In-house method based on USEPA method OIA-1667. Determination of cyanide by Flow Injection Analyser. ISO17025 accredited method for soils and waters and MCERTS on soils. Accreditation is matrix specific.	PM45	Cyanide & Thiocyanate prep for soils			AR	Yes



Jones Environmental Laboratory

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Attention : Dan Wayland
Date : 25th September, 2014
Your reference : R1742B
Our reference : Test Report 14/10359 Batch 1
Location : Upper Heyford (Dorchester)
Date samples received : 11th September, 2014
Status : Final report
Issue : 1

Fourteen samples were received for analysis on 11th September, 2014 of which fourteen were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Bruce Leslie
Project Co-ordinator

Bob Millward BSc FRSC
Principal Chemist

Jones Environmental Laboratory

Client Name: Smith Grant LLP
Reference: R1742B
Location: Upper Heyford (Dorchester)
Contact: Dan Wayland
JE Job No.: 14/10359

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17	18	Please see attached notes for all abbreviations and acronyms			
Sample ID	D1B-SW-AGG1	D1B-SW-AGG2	D1B-SW-AGG3	D1B-SW-AGG4	D1B-SS4B	D1B-SS4C	D1B-SS4D	D1B-SS4E	D1B-SS6B	D1B-SS6C				
Depth					0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40				
COC No / misc														
Containers	V J	V J	V J	V J	V J	V J	V J	V J	J	J				
Sample Date	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1	1	1	1				
Date of Receipt	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	LOD/LOR	Units	Method No.	
Antimony	<1	1	1	1	-	-	-	-	-	-	<1	mg/kg	TM30/PM15	
Arsenic ^{#M}	13.4	23.1	45.0	14.0	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM15	
Barium ^{#M}	79	96	68	178	-	-	-	-	-	-	<1	mg/kg	TM30/PM15	
Beryllium	0.7	1.0	0.8	0.9	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM15	
Cadmium ^{#M}	<0.1	0.1	<0.1	0.3	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM15	
Chromium ^{#M}	19.2	26.8	19.6	20.9	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM15	
Cobalt ^{#M}	4.7	6.6	6.2	6.2	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM15	
Copper ^{#M}	7	11	6	15	-	-	-	-	-	-	<1	mg/kg	TM30/PM15	
Lead ^{#M}	11	21	13	29	-	-	-	-	5	10	<5	mg/kg	TM30/PM15	
Mercury ^{#M}	<0.1	<0.1	<0.1	0.2	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM15	
Molybdenum ^{#M}	0.8	1.2	1.4	1.3	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM15	
Nickel ^{#M}	13.1	18.5	16.5	14.3	-	-	-	-	-	-	<0.7	mg/kg	TM30/PM15	
Selenium ^{#M}	<1	<1	<1	<1	-	-	-	-	-	-	<1	mg/kg	TM30/PM15	
Vanadium	37	48	38	37	-	-	-	-	-	-	<1	mg/kg	TM30/PM15	
Water Soluble Boron ^{#M}	3.0	4.6	3.4	3.6	-	-	-	-	-	-	<0.1	mg/kg	TM74/PM32	
Zinc ^{#M}	47	73	51	116	-	-	-	-	-	-	<5	mg/kg	TM30/PM15	
PAH MS														
Naphthalene ^{#M}	<0.40 _D	<0.40 _D	1.21 _D	<0.20 _A	<0.04	<0.04	<0.04	0.16	-	-	<0.04	mg/kg	TM4/PM8	
Acenaphthylene	<0.30 _D	<0.30 _D	<0.30 _D	<0.15 _A	<0.03	<0.03	<0.03	0.20	-	-	<0.03	mg/kg	TM4/PM8	
Acenaphthene ^{#M}	0.91 _D	0.62 _D	1.76 _D	<0.25 _A	<0.05	<0.05	<0.05	0.20	-	-	<0.05	mg/kg	TM4/PM8	
Fluorene ^{#M}	0.67 _D	0.42 _D	1.23 _D	<0.20 _A	<0.04	<0.04	<0.04	0.19	-	-	<0.04	mg/kg	TM4/PM8	
Phenanthrene ^{#M}	6.61 _D	4.52 _D	13.06 _D	0.60 _A	0.59	<0.03	<0.03	1.76	-	-	<0.03	mg/kg	TM4/PM8	
Anthracene [#]	1.90 _D	1.31 _D	3.54 _D	<0.20 _A	0.07	<0.04	<0.04	0.87	-	-	<0.04	mg/kg	TM4/PM8	
Fluoranthene ^{#M}	7.66 _D	5.25 _D	14.01 _D	0.89 _A	0.84	<0.03	0.10	6.28	-	-	<0.03	mg/kg	TM4/PM8	
Pyrene [#]	6.19 _D	4.31 _D	10.84 _D	0.77 _A	0.65	<0.03	0.12	5.85	-	-	<0.03	mg/kg	TM4/PM8	
Benzo(a)anthracene [#]	3.48 _D	2.61 _D	5.84 _D	0.54 _A	0.23	<0.06	0.10	3.36	-	-	<0.06	mg/kg	TM4/PM8	
Chrysene ^{#M}	3.15 _D	2.28 _D	5.31 _D	0.47 _A	0.34	<0.02	0.09	3.40	-	-	<0.02	mg/kg	TM4/PM8	
Benzo(k)fluoranthene ^{#M}	4.43 _D	3.31 _D	7.13 _D	0.62 _A	0.49	<0.07	0.21	5.73	-	-	<0.07	mg/kg	TM4/PM8	
Benzo(a)pyrene [#]	2.86 _D	2.26 _D	4.68 _D	0.40 _A	0.28	<0.04	0.15	3.87	-	-	<0.04	mg/kg	TM4/PM8	
Indeno(123cd)pyrene ^{#M}	1.69 _D	1.40 _D	2.77 _D	0.25 _A	0.21	<0.04	0.10	2.66	-	-	<0.04	mg/kg	TM4/PM8	
Dibenzo(ah)anthracene [#]	<0.40 _D	<0.40 _D	0.49 _D	<0.20 _A	0.05	<0.04	<0.04	0.63	-	-	<0.04	mg/kg	TM4/PM8	
Benzo(ghi)perylene [#]	1.54 _D	1.13 _D	2.30 _D	0.22 _A	0.20	<0.04	0.11	2.59	-	-	<0.04	mg/kg	TM4/PM8	
PAH 16 Total	41.1 _D	29.4 _D	74.2 _D	4.8 _A	4.0	<0.6	1.0	37.8	-	-	<0.6	mg/kg	TM4/PM8	
Benzo(b)fluoranthene	3.19 _D	2.38 _D	5.13 _D	0.45 _A	0.35	<0.05	0.15	4.13	-	-	<0.05	mg/kg	TM4/PM8	
Benzo(k)fluoranthene	1.24 _D	0.93 _D	2.00 _D	0.17 _A	0.14	<0.02	0.06	1.60	-	-	<0.02	mg/kg	TM4/PM8	
PAH Surrogate % Recovery	97 _D	114 _D	101 _D	92 _A	101	107	109	106	-	-	<0	%	TM4/PM8	

Please include all sections of this report if it is reproduced

Client Name: Smith Grant LLP
Reference: R1742B
Location: Upper Heyford (Dorchester)
Contact: Dan Wayland
JE Job No.: 14/10359

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17	18	Please see attached notes for all abbreviations and acronyms			
Sample ID	D1B-SW-AGG1	D1B-SW-AGG2	D1B-SW-AGG3	D1B-SW-AGG4	D1B-SS4B	D1B-SS4C	D1B-SS4D	D1B-SS4E	D1B-SS6B	D1B-SS6C				
Depth					0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40				
COC No / misc														
Containers	V J	V J	V J	V J	V J	V J	V J	V J	J	J				
Sample Date	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1	1	1	1				
Date of Receipt	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	LOD/LOR	Units	Method No.	
TPH CWG														
Aliphatics														
>C5-C6 ^{#M}	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	<0.1	mg/kg	TM36/PM12	
>C6-C8 ^{#M}	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	<0.1	mg/kg	TM36/PM12	
>C8-C10	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	<0.1	mg/kg	TM36/PM12	
>C10-C12 ^{#M}	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	mg/kg	TM5/PM16	
>C12-C16 ^{#M}	<4	<4	<4	<4	-	-	-	-	-	-	<4	mg/kg	TM5/PM16	
>C16-C21 ^{#M}	<7	<7	<7	<7	-	-	-	-	-	-	<7	mg/kg	TM5/PM16	
>C21-C35 ^{#M}	<7	<7	26	153	-	-	-	-	-	-	<7	mg/kg	TM5/PM16	
Total aliphatics C5-35	<19	<19	26	153	-	-	-	-	-	-	<19	mg/kg	TM5/PM16	
Aromatics														
>C5-EC7	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	<0.1	mg/kg	TM36/PM12	
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	<0.1	mg/kg	TM36/PM12	
>EC8-EC10 ^{#M}	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	<0.1	mg/kg	TM36/PM12	
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	mg/kg	TM5/PM16	
>EC12-EC16	6	<4	<4	7	-	-	-	-	-	-	<4	mg/kg	TM5/PM16	
>EC16-EC21	82	20	41	98	-	-	-	-	-	-	<7	mg/kg	TM5/PM16	
>EC21-EC35	231	120	170	393	-	-	-	-	-	-	<7	mg/kg	TM5/PM16	
Total aromatics C5-35	319	140	211	498	-	-	-	-	-	-	<19	mg/kg	TM5/PM16	
Total aliphatics and aromatics(C5-35)	319	140	237	651	-	-	-	-	-	-	<38	mg/kg	TM5/PM16	
MTBE [#]	<5	<5	<5	<5	-	-	-	-	-	-	<5	ug/kg	TM31/PM12	
Benzene [#]	<5	<5	<5	<5	-	-	-	-	-	-	<5	ug/kg	TM31/PM12	
Toluene [#]	<5	<5	<5	<5	-	-	-	-	-	-	<5	ug/kg	TM31/PM12	
Ethylbenzene [#]	<5	<5	<5	<5	-	-	-	-	-	-	<5	ug/kg	TM31/PM12	
m/p-Xylene [#]	<5	<5	<5	<5	-	-	-	-	-	-	<5	ug/kg	TM31/PM12	
o-Xylene [#]	<5	<5	<5	<5	-	-	-	-	-	-	<5	ug/kg	TM31/PM12	
PCBs (Total vs Aroclor 1254)	<10	<10	<10	<10	-	-	-	-	-	-	<10	ug/kg	TM16/PM8	
Natural Moisture Content	3.8	1.7	1.2	7.0	23.2	8.4	12.7	5.4	-	-	<0.1	%	PM4/PM0	
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	-	-	-	-	-	-	<0.3	mg/kg	TM38/PM76	
Free Cyanide	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	mg/kg	TM89/PM45	
Complex Cyanide	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	mg/kg	TM89/PM45	
Organic Matter	1.7	1.2	0.5	1.3	1.5	<0.2	0.2	NDP	-	-	<0.2	%	TM21/PM24	
Electrical Conductivity @25C (5:1 ext)	1123	1938	1567	2363	-	-	-	-	-	-	<100	uS/cm	TM76/PM58	
pH ^{#M}	10.73	9.40	9.56	10.58	-	-	-	-	-	-	<0.01	pH units	TM73/PM11	
Sample Type	Other	Other	Other	Other	Clay	Clay	Clay	Sandy Loam	Clayey Sand	Clay		None	PM13/PM0	
Sample Colour	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown		None	PM13/PM0	
Other Items	stones and brick fragment	stones, brick fragment and cement	stones and brick fragment	stones and brick fragment	stones, roots	stones	stones	stones, fibre board	stones	stones, sand		None	PM13/PM0	

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Client Name: Smith Grant LLP
 Reference: R1742B
 Location: Upper Heyford (Dorchester)
 Contact: Dan Wayland
 JE Job No.: 14/10359

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17	18	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SW-AGG1	D1B-SW-AGG2	D1B-SW-AGG3	D1B-SW-AGG4	D1B-SS4B	D1B-SS4C	D1B-SS4D	D1B-SS4E	D1B-SS6B	D1B-SS6C			
Depth					0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	J	J			
Sample Date	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014	10/09/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	11/09/2014	LOD/LOR	Units	Method No.
Mass of Dry Sample	-	-	-	-	-	-	-	59.6	-	-	<0.1	g	PM4/PM0

Jones Environmental Laboratory

Client Name: Smith Grant LLP
 Reference: R1742B
 Location: Upper Heyford (Dorchester)
 Contact: Dan Wayland
 JE Job No.: 14/10359

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	19	20	21	22										LOD/LOR	Units	Method No.
	Sample ID	D1B-SS6D	D1B-SS6E	D1B-SS6F												
Depth	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40												
COC No / misc																
Containers	J	J	J	J												
Sample Date	10/09/2014	10/09/2014	10/09/2014	10/09/2014												
Sample Type	Soil	Soil	Soil	Soil												
Batch Number	1	1	1	1												
Date of Receipt	11/09/2014	11/09/2014	11/09/2014	11/09/2014												
Antimony	-	-	-	-										<1	mg/kg	TM30/PM15
Arsenic #M	-	-	-	-										<0.5	mg/kg	TM30/PM15
Barium #M	-	-	-	-										<1	mg/kg	TM30/PM15
Beryllium	-	-	-	-										<0.5	mg/kg	TM30/PM15
Cadmium #M	-	-	-	-										<0.1	mg/kg	TM30/PM15
Chromium #M	-	-	-	-										<0.5	mg/kg	TM30/PM15
Cobalt #M	-	-	-	-										<0.5	mg/kg	TM30/PM15
Copper #M	-	-	-	-										<1	mg/kg	TM30/PM15
Lead #M	20	6	7	14										<5	mg/kg	TM30/PM15
Mercury #M	-	-	-	-										<0.1	mg/kg	TM30/PM15
Molybdenum #M	-	-	-	-										<0.1	mg/kg	TM30/PM15
Nickel #M	-	-	-	-										<0.7	mg/kg	TM30/PM15
Selenium #M	-	-	-	-										<1	mg/kg	TM30/PM15
Vanadium	-	-	-	-										<1	mg/kg	TM30/PM15
Water Soluble Boron #M	-	-	-	-										<0.1	mg/kg	TM74/PM32
Zinc #M	-	-	-	-										<5	mg/kg	TM30/PM15
PAH MS																
Naphthalene #M	-	-	-	-										<0.04	mg/kg	TM4/PM8
Acenaphthylene	-	-	-	-										<0.03	mg/kg	TM4/PM8
Acenaphthene #M	-	-	-	-										<0.05	mg/kg	TM4/PM8
Fluorene #M	-	-	-	-										<0.04	mg/kg	TM4/PM8
Phenanthrene #M	-	-	-	-										<0.03	mg/kg	TM4/PM8
Anthracene #	-	-	-	-										<0.04	mg/kg	TM4/PM8
Fluoranthene #M	-	-	-	-										<0.03	mg/kg	TM4/PM8
Pyrene #	-	-	-	-										<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	-	-	-	-										<0.06	mg/kg	TM4/PM8
Chrysene #M	-	-	-	-										<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #M	-	-	-	-										<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	-	-	-	-										<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #M	-	-	-	-										<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	-	-	-	-										<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	-	-	-	-										<0.04	mg/kg	TM4/PM8
PAH 16 Total	-	-	-	-										<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	-	-	-	-										<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	-	-	-	-										<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	-	-	-	-										<0	%	TM4/PM8

Please see attached notes for all abbreviations and acronyms

Client Name: Smith Grant LLP
Reference: R1742B
Location: Upper Heyford (Dorchester)
Contact: Dan Wayland
JE Job No.: 14/10359

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	19	20	21	22										
Sample ID	D1B-SS6D	D1B-SS6E	D1B-SS6F	D1B-SS6G										
Depth	0.00-0.40	0.00-0.40	0.00-0.40	0.00-0.40										
COC No / misc														
Containers	J	J	J	J										
Sample Date	10/09/2014	10/09/2014	10/09/2014	10/09/2014										
Sample Type	Soil	Soil	Soil	Soil										
Batch Number	1	1	1	1										
Date of Receipt	11/09/2014	11/09/2014	11/09/2014	11/09/2014										
												LOD/LOR	Units	Method No.
TPH CWG														
Aliphatics														
>C5-C6 ^{#M}	-	-	-	-								<0.1	mg/kg	TM36/PM12
>C6-C8 ^{#M}	-	-	-	-								<0.1	mg/kg	TM36/PM12
>C8-C10	-	-	-	-								<0.1	mg/kg	TM36/PM12
>C10-C12 ^{#M}	-	-	-	-								<0.2	mg/kg	TM5/PM16
>C12-C16 ^{#M}	-	-	-	-								<4	mg/kg	TM5/PM16
>C16-C21 ^{#M}	-	-	-	-								<7	mg/kg	TM5/PM16
>C21-C35 ^{#M}	-	-	-	-								<7	mg/kg	TM5/PM16
Total aliphatics C5-35	-	-	-	-								<19	mg/kg	TM5/TM36/PM12/PM16
Aromatics														
>C5-EC7	-	-	-	-								<0.1	mg/kg	TM36/PM12
>EC7-EC8	-	-	-	-								<0.1	mg/kg	TM36/PM12
>EC8-EC10 ^{#M}	-	-	-	-								<0.1	mg/kg	TM36/PM12
>EC10-EC12	-	-	-	-								<0.2	mg/kg	TM5/PM16
>EC12-EC16	-	-	-	-								<4	mg/kg	TM5/PM16
>EC16-EC21	-	-	-	-								<7	mg/kg	TM5/PM16
>EC21-EC35	-	-	-	-								<7	mg/kg	TM5/PM16
Total aromatics C5-35	-	-	-	-								<19	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics and aromatics(C5-35)	-	-	-	-								<38	mg/kg	TM5/TM36/PM12/PM16
MTBE #	-	-	-	-								<5	ug/kg	TM31/PM12
Benzene #	-	-	-	-								<5	ug/kg	TM31/PM12
Toluene #	-	-	-	-								<5	ug/kg	TM31/PM12
Ethylbenzene #	-	-	-	-								<5	ug/kg	TM31/PM12
m/p-Xylene #	-	-	-	-								<5	ug/kg	TM31/PM12
o-Xylene #	-	-	-	-								<5	ug/kg	TM31/PM12
PCBs (Total vs Aroclor 1254)	-	-	-	-								<10	ug/kg	TM16/PM8
Natural Moisture Content	-	-	-	-								<0.1	%	PM4/PM0
Hexavalent Chromium	-	-	-	-								<0.3	mg/kg	TM38/PM76
Free Cyanide	-	-	-	-								<0.5	mg/kg	TM89/PM45
Complex Cyanide	-	-	-	-								<0.5	mg/kg	TM89/PM45
Organic Matter	-	-	-	-								<0.2	%	TM21/PM24
Electrical Conductivity @25C (5:1 ext)	-	-	-	-								<100	uS/cm	TM76/PM58
pH ^{#M}	-	-	-	-								<0.01	pH units	TM73/PM11
Sample Type	Clay	Sandy Loam	Sand	Clay									None	PM13/PM0
Sample Colour	Light Brown	Medium Brown	Medium Brown	Light Brown									None	PM13/PM0
Other Items	stones	stones	stones, clay	stones									None	PM13/PM0

Please see attached notes for all abbreviations and acronyms

Client Name: Smith Grant LLP
Reference: R1742B
Location: Upper Heyford (Dorchester)
Contact: Dan Wayland

Note:

Analysis was carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.

If asbestos fibres are reported at trace levels there will not be enough fibres to quantify and will be less than 0.001%.

Signed on behalf of Jones Environmental Laboratory:



Gemma Newsome
Asbestos Team Leader

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Date Of Analysis	Description	Asbestos Containing Material	Asbestos Results	Asbestos Level	Comments
14/10359	1	D1B-SS4E	0.00-0.40	16	16/09/14	Soil-Silt/Clay/Brick/Stone	Free Fibres	Chrysotile	Trace	

Client Name: Smith Grant LLP
Reference: R1742B
Location: Upper Heyford (Dorchester)
Contact: Dan Wayland

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Analysis	Reason
No deviating sample report results for job 14/10359						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 14/10359

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Please include all sections of this report if it is reproduced

All solid results are expressed on a dry weight basis unless stated otherwise.

ABBREVIATIONS and ACRONYMS USED

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
OC	Outside Calibration Range
A	x5 Dilution
D	x10 Dilution

JE Job No: 14/10359

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465 and BS1377.	PM0	No preparation is required.				
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465 and BS1377.	PM0	No preparation is required.			AR	Yes
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.			AR	Yes
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.	Yes		AR	Yes
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.	Yes	Yes	AR	Yes
TM5	In-House method based on USEPA 8015B. Determination of Extractable Petroleum Hydrocarbons (EPH) in the carbon chain length range of C8-40 by GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS (carbon banding only) on soils. All accreditation is matrix specific.	PM16	Aliphatic/Aromatic fractionation			AR	Yes
TM5	In-House method based on USEPA 8015B. Determination of Extractable Petroleum Hydrocarbons (EPH) in the carbon chain length range of C8-40 by GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS (carbon banding only) on soils. All accreditation is matrix specific.	PM16	Aliphatic/Aromatic fractionation	Yes	Yes	AR	Yes
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID			AR	Yes
PM13	Soil Typing for MCERTS	PM0	No preparation is required.			AR	
TM16	In-House method based on USEPA 8270. Determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS. Accredited to ISO 17025 for waters. All accreditation is matrix specific. Quantification by Internal Standard method.	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.			AR	Yes

JE Job No: 14/10359

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM21	TOC and TC by Combustion	PM24	Eltra preparation			AD	Yes
TM30	Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry) using Thermo iCAP 6000 series instrument. Accredited to ISO 17025 for soils and waters and MCERTS accredited for Soils. All accreditation is matrix specific.	PM15	In-house method based on USEPA 3010A. Acid digestion of dried and crushed solid samples using Aqua Regia reflux.			AD	Yes
TM30	Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry) using Thermo iCAP 6000 series instrument. Accredited to ISO 17025 for soils and waters and MCERTS accredited for Soils. All accreditation is matrix specific.	PM15	In-house method based on USEPA 3010A. Acid digestion of dried and crushed solid samples using Aqua Regia reflux.	Yes	Yes	AD	Yes
TM31	In-house method based on USEPA 8015B. Determination of Methyltertbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID. Accredited to ISO 17025 for soils and waters and MCERTS accredited for soils. Accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific			AR	Yes
TM31	In-house method based on USEPA 8015B. Determination of Methyltertbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID. Accredited to ISO 17025 for soils and waters and MCERTS accredited for soils. Accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific	Yes		AR	Yes
TM36	In-house method based on USEPA 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C5-12 by headspace GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS accredited (carbon banding only) on soils. All accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific			AR	Yes
TM36	In-House method based on USEPA 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C5-12 by headspace GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS accredited (carbon banding only) on soils. All accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific	Yes	Yes	AR	Yes
TM38	Ionic analysis using the Thermo Aquakem Photometric Automatic Analyser. Accredited to ISO17025 and MCERTS for most analytes. All accreditation is matrix specific.	PM76	As received samples are extracted using Sodium Hydroxide			AR	Yes
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres			AR	
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres	Yes		AR	

JE Job No: 14/10359

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM73	pH in by Metrohm	PM11	1:2.5 soil/water extraction	Yes	Yes	AR	No
TM74	Water Soluble Boron by ICP-OES	PM32	Preparation of soils for WSB	Yes	Yes	AD	Yes
TM76	Electrical Conductivity by Metrohm	PM58	Preparation of sample for Electrical Conductivity			AD	Yes
TM89	In-house method based on USEPA method OIA-1667. Determination of cyanide by Flow Injection Analyser. ISO17025 accredited method for soils and waters and MCERTS on soils. Accreditation is matrix specific.	PM45	Cyanide & Thiocyanate prep for soils			AR	Yes



Jones Environmental Laboratory

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Attention : Dan Wayland
Date : 2nd September, 2014
Your reference : R1742B
Our reference : Test Report 14/9392 Batch 1
Location : Heyford(Dorchester)
Date samples received : 19th August, 2014
Status : Final report
Issue : 2

Forty samples were received for analysis on 19th August, 2014. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Phil Sommerton BSc
Project Manager

Bob Millward BSc FRSC
Principal Chemist

Client Name: Smith Grant LLP
 Reference: R1742B
 Location: Heyford(Dorchester)
 Contact: Dan Wayland
 JE Job No.: 14/9392

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-NE-AGG1	D1B-NE-AGG2	D1B-NE-AGG3	D1B-SE-AGG1	D1B-SE-AGG2	D1B-SS1	D1B-SS2	D1B-SS3	D1B-SS4	D1B-SS5			
Depth						0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	LOD/LOR	Units	Method No.
Antimony	-	<1	<1	<1	<1	<1	2	1	1	<1	<1	mg/kg	TM30/PM15
Antimony	1	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Arsenic ^{#M}	-	16.8	27.2	16.1	9.6	19.8	27.5	48.6	17.0	16.1	<0.5	mg/kg	TM30/PM15
Arsenic	17.7	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Barium ^{#M}	-	64	79	45	83	47	31	34	42	66	<1	mg/kg	TM30/PM15
Barium	144	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Beryllium	-	0.7	0.5	<0.5	<0.5	0.6	1.6	1.3	0.9	0.8	<0.5	mg/kg	TM30/PM15
Beryllium	1.1	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Cadmium ^{#M}	-	0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Cadmium	<0.1	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Chromium ^{#M}	-	18.1	18.2	14.3	17.7	16.4	61.4	59.5	19.7	27.7	<0.5	mg/kg	TM30/PM15
Chromium	26.3	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Cobalt ^{#M}	-	4.7	4.7	4.3	3.8	4.9	8.6	5.5	5.4	4.6	<0.5	mg/kg	TM30/PM15
Cobalt	7.5	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Copper ^{#M}	-	6	7	6	7	9	3	4	<1	<1	<1	mg/kg	TM30/PM15
Copper	13	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Lead ^{#M}	-	6	14	8	13	11	10	11	12	8	<5	mg/kg	TM30/PM15
Lead	48	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM62
Mercury ^{#M}	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Mercury	0.5	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Molybdenum ^{#M}	-	1.0	1.0	0.8	0.9	1.6	1.4	0.6	0.7	0.7	<0.1	mg/kg	TM30/PM15
Molybdenum	1.5	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Nickel ^{#M}	-	14.9	12.8	11.2	11.7	11.2	29.1	20.6	14.7	15.5	<0.7	mg/kg	TM30/PM15
Nickel	18.7	-	-	-	-	-	-	-	-	-	<0.7	mg/kg	TM30/PM62
Selenium ^{#M}	-	1	1	<1	1	1	1	1	<1	<1	<1	mg/kg	TM30/PM15
Selenium	<1	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Vanadium	-	31	38	30	27	53	142	133	47	62	<1	mg/kg	TM30/PM15
Vanadium	54	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Water Soluble Boron ^{#M}	-	1.9	3.4	0.9	1.7	1.0	1.7	1.1	1.1	0.8	<0.1	mg/kg	TM74/PM32
Water Soluble Boron	3.7	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM74/PM61
Zinc ^{#M}	-	41	58	40	43	40	83	56	54	46	<5	mg/kg	TM30/PM15
Zinc	205	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM62

Jones Environmental Laboratory

Client Name: Smith Grant LLP
Reference: R1742B
Location: Heyford(Dorchester)
Contact: Dan Wayland
JE Job No.: 14/9392

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-NE-AGG1	D1B-NE-AGG2	D1B-NE-AGG3	D1B-SE-AGG1	D1B-SE-AGG2	D1B-SS1	D1B-SS2	D1B-SS3	D1B-SS4	D1B-SS5			
Depth						0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	LOD/LOR	Units	Method No.
PAH MS													
Naphthalene ^{#M}	<0.04	0.32	0.82	0.13	<0.04	<0.04	0.05	<0.04	<0.40 _A	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.09	0.06	0.19	0.13	0.03	<0.03	0.12	0.06	0.82 _A	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene ^{#M}	0.09	0.46	1.02	0.31	0.05	<0.05	0.13	<0.05	0.71 _A	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene ^{#M}	0.04	0.31	0.79	0.19	<0.04	<0.04	0.14	<0.04	0.60 _A	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene ^{#M}	0.94	3.04	7.77	2.51	0.48	0.06	1.15	0.35	10.19 _A	0.07	<0.03	mg/kg	TM4/PM8
Anthracene [#]	0.29	0.87	2.26	0.67	0.13	<0.04	0.51	0.14	3.71 _A	<0.04	<0.04	mg/kg	TM4/PM8
Fluoranthene ^{#M}	2.58	2.99	8.44	4.28	0.85	0.11	3.17	0.93	19.90 _A	0.20	<0.03	mg/kg	TM4/PM8
Pyrene [#]	2.18	2.31	7.01	3.31	0.68	0.09	3.15	0.82	17.90 _A	0.18	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene [#]	1.01	1.12	3.63	2.26	0.32	0.08	1.56	0.50	9.79 _A	0.14	<0.06	mg/kg	TM4/PM8
Chrysene ^{#M}	1.19	0.92	3.28	2.16	0.35	0.06	1.62	0.44	10.24 _A	0.14	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene ^{#M}	1.69	1.40	5.18	3.48	0.43	0.10	2.77	0.75	17.64 _A	0.24	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene [#]	0.95	0.91	3.41	1.63	0.22	0.06	1.53	0.44	10.97 _A	0.11	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene ^{#M}	0.65	0.56	1.77	1.17	0.14	0.04	1.03	0.28	6.49 _A	0.09	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene [#]	0.11	0.07	0.37	0.26	0.04	<0.04	0.12	0.08	1.05 _A	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene [#]	0.58	0.46	1.64	1.13	0.14	0.04	1.04	0.29	6.01 _A	0.09	<0.04	mg/kg	TM4/PM8
PAH 16 Total	12.4	15.8	47.6	23.6	3.9	0.6	18.1	5.1	116.0 _A	1.3	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	1.22	1.01	3.73	2.51	0.31	0.07	1.99	0.54	12.70 _A	0.17	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.47	0.39	1.45	0.97	0.12	0.03	0.78	0.21	4.94 _A	0.07	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	99	101	102	94	103	100	100	100	103 _A	106	<0	%	TM4/PM8
TPH CWG													
Aliphatics													
>C5-C6 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 ^{#M}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>C12-C16 ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>C16-C21 ^{#M}	<7	<7	<7	<7	<7	<7	29	<7	<7	<7	<7	mg/kg	TM5/PM16
>C21-C35 ^{#M}	<7	46	14	36	<7	<7	43	41	<7	<7	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	<19	46	<19	36	<19	<19	72	41	<19	<19	<19	mg/kg	TM5/PM16
Aromatics													
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>EC12-EC16	<4	6	10	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>EC16-EC21	16	49	67	13	<7	<7	21	<7	51	<7	<7	mg/kg	TM5/PM16
>EC21-EC35	76	152	163	108	<7	<7	76	62	228	<7	<7	mg/kg	TM5/PM16
Total aromatics C5-35	92	207	240	121	<19	<19	97	62	279	<19	<19	mg/kg	TM5/PM16
Total aliphatics and aromatics(C5-35)	92	253	240	157	<38	<38	169	103	279	<38	<38	mg/kg	TM5/PM16
MTBE [#]													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Benzene [#]													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12

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Client Name: Smith Grant LLP
Reference: R1742B
Location: Heyford(Dorchester)
Contact: Dan Wayland
JE Job No.: 14/9392

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-NE-AGG1	D1B-NE-AGG2	D1B-NE-AGG3	D1B-SE-AGG1	D1B-SE-AGG2	D1B-SS1	D1B-SS2	D1B-SS3	D1B-SS4	D1B-SS5			
Depth						0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	LOD/LOR	Units	Method No.
Toluene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Ethylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
m/p-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
o-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
PCBs (Total vs Aroclor 1254)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Natural Moisture Content	1.9	2.4	2.6	0.9	5.2	11.9	7.9	10.4	9.3	10.2	<0.1	%	PM4/PM0
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM76
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Complex Cyanide	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Organic Matter	-	<0.2	0.3	0.2	0.3	0.7	0.3	0.2	0.7	0.3	<0.2	%	TM21/PM24
Electrical Conductivity @25C (5:1 ext)	-	1393	1303	2215	2749	396	416	335	241	307	<100	uS/cm	TM76/PM58
pH #M	8.65	8.25	9.64	8.96	8.49	8.42	10.07	9.12	8.67	8.68	<0.01	pH units	TM73/PM11
Sample Type	Clay	Other	Other	Silt	Sand	Clay	Loamy Sand	Clay	Sand	Clay		None	PM13/PM0
Sample Colour	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Medium Brown	Light Brown	Light Brown	Light Brown	Light Brown		None	PM13/PM0
Other Items	<small>dry clay, stones and brick fragments</small>	<small>stones and brick fragments</small>	<small>stones and brick fragments</small>	<small>stones and brick fragments</small>	<small>stones, brick fragments and other</small>	<small>stones and sand</small>	<small>stones</small>	<small>stones and sand</small>	<small>stones and clinker</small>	<small>stones and sand</small>		None	PM13/PM0
Mass of Dry Sample	72.9	-	-	-	-	-	-	-	-	-	<0.1	g	PM4/PM0

Jones Environmental Laboratory

Client Name: Smith Grant LLP
Reference: R1742B
Location: Heyford(Dorchester)
Contact: Dan Wayland
JE Job No.: 14/9392

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	39-40	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS6	D1B-SS7	D1B-SS8	D1B-SS9	D1B-SS10	D1B-SS11	D1B-SS12	D1B-SS13	D1B-SS14	D1B-SS15	LOD/LOR	Units	Method No.
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014			
Antimony	2	1	1	<1	1	1	3	2	7	1	<1	mg/kg	TM30/PM15
Antimony	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Arsenic ^{#M}	30.6	21.6	23.9	15.0	16.1	21.9	86.4	22.9	23.5	27.0	<0.5	mg/kg	TM30/PM15
Arsenic	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Barium ^{#M}	55	85	48	25	73	55	120	52	500	27	<1	mg/kg	TM30/PM15
Barium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Beryllium	2.0	1.5	1.0	0.5	1.0	0.7	1.5	0.9	1.8	1.0	<0.5	mg/kg	TM30/PM15
Beryllium	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Cadmium ^{#M}	<0.1	<0.1	<0.1	<0.1	0.2	0.5	<0.1	<0.1	1.1	<0.1	<0.1	mg/kg	TM30/PM15
Cadmium	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Chromium ^{#M}	69.3	38.2	33.6	14.9	34.0	22.3	39.4	23.7	27.4	21.1	<0.5	mg/kg	TM30/PM15
Chromium	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Cobalt ^{#M}	11.1	11.0	5.8	4.8	7.8	5.8	11.9	7.2	13.2	6.1	<0.5	mg/kg	TM30/PM15
Cobalt	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Copper ^{#M}	<1	<1	<1	<1	<1	<1	<1	<1	16	<1	<1	mg/kg	TM30/PM15
Copper	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Lead ^{#M}	2035	13	15	9	54	19	41	11	76	10	<5	mg/kg	TM30/PM15
Lead	-	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM62
Mercury ^{#M}	<0.1	<0.1	0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Mercury	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Molybdenum ^{#M}	0.6	0.8	0.9	1.2	1.9	0.8	0.9	1.2	5.2	0.5	<0.1	mg/kg	TM30/PM15
Molybdenum	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Nickel ^{#M}	39.1	24.8	18.0	13.0	18.3	16.2	31.0	17.2	33.8	15.9	<0.7	mg/kg	TM30/PM15
Nickel	-	-	-	-	-	-	-	-	-	-	<0.7	mg/kg	TM30/PM62
Selenium ^{#M}	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	TM30/PM15
Selenium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Vanadium	144	104	77	47	58	48	104	67	64	47	<1	mg/kg	TM30/PM15
Vanadium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Water Soluble Boron ^{#M}	1.2	0.8	1.0	1.1	4.2	1.4	1.9	0.6	0.9	0.1	<0.1	mg/kg	TM74/PM32
Water Soluble Boron	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM74/PM61
Zinc ^{#M}	80	52	52	46	98	56	115	53	172	51	<5	mg/kg	TM30/PM15
Zinc	-	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM62

Jones Environmental Laboratory

Client Name: Smith Grant LLP
Reference: R1742B
Location: Heyford(Dorchester)
Contact: Dan Wayland
JE Job No.: 14/9392

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	39-40	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS6	D1B-SS7	D1B-SS8	D1B-SS9	D1B-SS10	D1B-SS11	D1B-SS12	D1B-SS13	D1B-SS14	D1B-SS15			
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	LOD/LOR	Units	Method No.
PAH MS													
Naphthalene ^{#M}	<0.04	<0.04	<0.04	<0.04	<0.40 _A	<0.04	<0.04	0.06	0.10	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.03	<0.03	<0.03	0.07	<0.30 _A	<0.03	<0.03	<0.03	0.13	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene ^{#M}	<0.05	<0.05	<0.05	<0.05	<0.50 _A	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene ^{#M}	<0.04	<0.04	<0.04	<0.04	<0.40 _A	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene ^{#M}	0.36	0.23	0.07	0.24	<0.30 _A	0.22	0.46	0.04	0.31	<0.03	<0.03	mg/kg	TM4/PM8
Anthracene [#]	0.10	<0.04	<0.04	0.09	<0.40 _A	0.05	0.09	<0.04	0.11	<0.04	<0.04	mg/kg	TM4/PM8
Fluoranthene ^{#M}	1.07	0.54	0.40	0.95	0.76 _A	0.31	0.49	0.06	0.46	<0.03	<0.03	mg/kg	TM4/PM8
Pyrene [#]	0.91	0.44	0.38	0.79	0.72 _A	0.25	0.42	0.06	0.40	<0.03	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene [#]	0.56	0.25	0.22	0.75	0.78 _A	0.18	0.26	<0.06	0.36	<0.06	<0.06	mg/kg	TM4/PM8
Chrysene ^{#M}	0.57	0.29	0.25	0.94	0.79 _A	0.18	0.25	0.04	0.39	0.02	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene ^{#M}	0.87	0.46	0.39	1.76	1.12 _A	0.28	0.39	0.09	0.86	<0.07	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene [#]	0.52	0.25	0.21	0.85	0.56 _A	0.15	0.22	0.06	0.55	<0.04	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene ^{#M}	0.33	0.18	0.17	0.61	0.53 _A	0.11	0.14	0.04	0.47	<0.04	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene [#]	0.06	<0.04	<0.04	0.14	<0.40 _A	<0.04	<0.04	<0.04	0.07	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene [#]	0.31	0.16	0.15	0.57	0.54 _A	0.10	0.13	0.06	0.49	0.04	<0.04	mg/kg	TM4/PM8
PAH 16 Total	5.7	2.8	2.2	7.8	<6.0 _A	1.8	2.9	<0.6	4.7	<0.6	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	0.63	0.33	0.28	1.27	0.81 _A	0.20	0.28	0.06	0.62	<0.05	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.24	0.13	0.11	0.49	0.31 _A	0.08	0.11	0.03	0.24	<0.02	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	103	102	106	107	98 _A	104	104	105	101	100	<0	%	TM4/PM8
TPH CWG													
Aliphatics													
>C5-C6 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 ^{#M}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>C12-C16 ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>C16-C21 ^{#M}	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>C21-C35 ^{#M}	<7	<7	<7	<7	121	12	66	<7	<7	<7	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	<19	<19	<19	<19	121	<19	66	<19	<19	<19	<19	mg/kg	TM5/PM16
Aromatics													
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>EC12-EC16	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>EC16-EC21	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>EC21-EC35	<7	<7	<7	<7	264	<7	165	<7	55	<7	<7	mg/kg	TM5/PM16
Total aromatics C5-35	<19	<19	<19	<19	264	<19	165	<19	55	<19	<19	mg/kg	TM5/PM16
Total aliphatics and aromatics(C5-35)	<38	<38	<38	<38	385	<38	231	<38	55	<38	<38	mg/kg	TM5/PM16
MTBE [#]													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Benzene [#]													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12

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Client Name: Smith Grant LLP
Reference: R1742B
Location: Heyford(Dorchester)
Contact: Dan Wayland
JE Job No.: 14/9392

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	39-40	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS6	D1B-SS7	D1B-SS8	D1B-SS9	D1B-SS10	D1B-SS11	D1B-SS12	D1B-SS13	D1B-SS14	D1B-SS15	LOD/LOR	Units	Method No.
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014			
Toluene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Ethylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
m/p-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
o-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
PCBs (Total vs Aroclor 1254)	<10	<10	<10	<10	<200 _p	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Natural Moisture Content	13.6	16.9	11.7	10.0	20.2	8.2	14.5	10.6	10.4	5.5	<0.1	%	PM4/PM0
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM76
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Complex Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Organic Matter	0.9	1.0	0.6	0.4	5.5	2.8	1.2	0.9	22.8	0.2	<0.2	%	TM21/PM24
Electrical Conductivity @25C (5:1 ext)	227	148	407	312	816	214	235	153	138	106	<100	uS/cm	TM76/PM58
pH #M	8.57	8.50	8.91	8.07	9.41	8.97	8.49	8.54	8.54	8.89	<0.01	pH units	TM73/PM11
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Loamy Sand	Sand		None	PM13/PM0
Sample Colour	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Light Brown		None	PM13/PM0
Other Items	stones and sand	stones and roots	stones	stones and sand	stones, sand and clinker	stones and sand	stones	stones and sand	stones and clinker	stones		None	PM13/PM0
Mass of Dry Sample	-	-	-	-	-	-	-	-	-	-	<0.1	g	PM4/PM0

Client Name: Smith Grant LLP
 Reference: R1742B
 Location: Heyford(Dorchester)
 Contact: Dan Wayland
 JE Job No.: 14/9392

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	41-42	43-44	45-46	47-48	49-50	51-52	53-54	55-56	57-58	59-60	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS16	D1B-SS17	D1B-SS18	D1B-SS19	D1B-SS20	D1B-SS21	D1B-SS22	D1B-SS23	D1B-SS24	D1B-SS25			
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	LOD/LOR	Units	Method No.
Antimony	1	<1	<1	1	1	2	1	<1	<1	<1	<1	mg/kg	TM30/PM15
Antimony	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Arsenic ^{#M}	16.2	7.8	13.2	17.6	19.8	28.0	27.1	14.5	14.9	14.5	<0.5	mg/kg	TM30/PM15
Arsenic	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Barium ^{#M}	94	14	42	56	66	107	31	25	26	62	<1	mg/kg	TM30/PM15
Barium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Beryllium	0.7	<0.5	0.7	0.8	0.8	1.9	0.9	<0.5	0.6	0.7	<0.5	mg/kg	TM30/PM15
Beryllium	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Cadmium ^{#M}	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	mg/kg	TM30/PM15
Cadmium	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Chromium ^{#M}	22.2	6.8	18.2	21.4	20.7	50.7	22.1	12.6	16.7	18.8	<0.5	mg/kg	TM30/PM15
Chromium	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Cobalt ^{#M}	6.6	3.6	5.7	8.1	7.6	14.4	6.9	3.9	4.9	5.5	<0.5	mg/kg	TM30/PM15
Cobalt	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Copper ^{#M}	<1	<1	<1	<1	<1	<1	<1	7	8	9	<1	mg/kg	TM30/PM15
Copper	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Lead ^{#M}	40	6	13	20	14	16	9	9	41	19	<5	mg/kg	TM30/PM15
Lead	-	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM62
Mercury ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Mercury	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Molybdenum ^{#M}	0.8	1.0	0.7	0.9	1.1	1.3	0.9	1.4	1.6	0.6	<0.1	mg/kg	TM30/PM15
Molybdenum	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Nickel ^{#M}	14.0	7.6	13.7	16.4	16.4	30.5	17.9	10.7	12.3	13.0	<0.7	mg/kg	TM30/PM15
Nickel	-	-	-	-	-	-	-	-	-	-	<0.7	mg/kg	TM30/PM62
Selenium ^{#M}	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	TM30/PM15
Selenium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Vanadium	55	20	46	56	52	124	52	41	45	46	<1	mg/kg	TM30/PM15
Vanadium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Water Soluble Boron ^{#M}	1.4	0.4	1.1	1.4	1.4	1.7	1.3	0.7	0.5	1.5	<0.1	mg/kg	TM74/PM32
Water Soluble Boron	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM74/PM61
Zinc ^{#M}	59	14	52	54	44	67	52	27	24	55	<5	mg/kg	TM30/PM15
Zinc	-	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM62

Jones Environmental Laboratory

Client Name: Smith Grant LLP
Reference: R1742B
Location: Heyford(Dorchester)
Contact: Dan Wayland
JE Job No.: 14/9392

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	41-42	43-44	45-46	47-48	49-50	51-52	53-54	55-56	57-58	59-60	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS16	D1B-SS17	D1B-SS18	D1B-SS19	D1B-SS20	D1B-SS21	D1B-SS22	D1B-SS23	D1B-SS24	D1B-SS25			
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	LOD/LOR	Units	Method No.
PAH MS													
Naphthalene ^{#M}	0.33	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.11	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene ^{#M}	0.67	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene ^{#M}	0.46	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene ^{#M}	4.53	<0.03	0.30	0.53	<0.03	<0.03	0.03	0.03	0.08	0.14	<0.03	mg/kg	TM4/PM8
Anthracene [#]	1.37	<0.04	0.08	0.19	<0.04	<0.04	<0.04	<0.04	<0.04	0.06	<0.04	mg/kg	TM4/PM8
Fluoranthene ^{#M}	5.22	<0.03	0.40	1.09	0.05	<0.03	0.07	0.07	0.29	0.47	<0.03	mg/kg	TM4/PM8
Pyrene [#]	3.98	<0.03	0.33	0.94	0.05	<0.03	0.07	0.06	0.25	0.40	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene [#]	2.35	<0.06	0.25	0.52	<0.06	<0.06	0.06	0.08	0.14	0.23	<0.06	mg/kg	TM4/PM8
Chrysene ^{#M}	2.22	<0.02	0.25	0.55	0.03	<0.02	0.05	0.04	0.14	0.26	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene ^{#M}	3.25	<0.07	0.40	0.89	<0.07	<0.07	0.10	0.09	0.18	0.39	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene [#]	1.93	<0.04	0.23	0.59	<0.04	<0.04	0.05	0.06	0.11	0.27	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene ^{#M}	0.95	<0.04	0.13	0.36	<0.04	<0.04	0.04	0.04	0.07	0.14	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene [#]	0.15	<0.04	<0.04	0.09	<0.04	<0.04	<0.04	0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene [#]	0.86	<0.04	0.13	0.35	<0.04	<0.04	0.04	0.06	0.07	0.16	<0.04	mg/kg	TM4/PM8
PAH 16 Total	28.4	<0.6	2.5	6.1	<0.6	<0.6	<0.6	<0.6	1.3	2.5	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	2.34	<0.05	0.29	0.64	<0.05	<0.05	0.07	0.06	0.13	0.28	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.91	<0.02	0.11	0.25	<0.02	<0.02	0.03	0.03	0.05	0.11	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	102	102	98	100	90	89	95	98	94	96	<0	%	TM4/PM8
TPH CWG													
Aliphatics													
>C5-C6 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 ^{#M}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>C12-C16 ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>C16-C21 ^{#M}	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>C21-C35 ^{#M}	34	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	34	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	mg/kg	TM5/PM16
Aromatics													
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>EC12-EC16	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>EC16-EC21	47	<7	<7	<7	<7	<7	16	<7	<7	<7	<7	mg/kg	TM5/PM16
>EC21-EC35	182	<7	<7	<7	<7	<7	38	<7	94	<7	<7	mg/kg	TM5/PM16
Total aromatics C5-35	233	<19	<19	<19	<19	<19	54	<19	94	<19	<19	mg/kg	TM5/PM16
Total aliphatics and aromatics(C5-35)	267	<38	<38	<38	<38	<38	54	<38	94	<38	<38	mg/kg	TM5/PM16
MTBE [#]													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Benzene [#]													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12

Please include all sections of this report if it is reproduced

Client Name: Smith Grant LLP
Reference: R1742B
Location: Heyford(Dorchester)
Contact: Dan Wayland
JE Job No.: 14/9392

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	41-42	43-44	45-46	47-48	49-50	51-52	53-54	55-56	57-58	59-60	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS16	D1B-SS17	D1B-SS18	D1B-SS19	D1B-SS20	D1B-SS21	D1B-SS22	D1B-SS23	D1B-SS24	D1B-SS25	LOD/LOR	Units	Method No.
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014			
Toluene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Ethylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
m/p-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
o-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
PCBs (Total vs Aroclor 1254)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Natural Moisture Content	10.3	6.9	11.5	9.6	13.0	16.8	6.9	10.0	14.2	11.1	<0.1	%	PM4/PM0
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM76
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Complex Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Organic Matter	1.3	0.4	0.9	1.6	1.7	1.3	1.2	1.9	0.3	1.2	<0.2	%	TM21/PM24
Electrical Conductivity @25C (5:1 ext)	530	496	231	406	367	128	449	136	116	344	<100	uS/cm	TM76/PM58
pH #M	8.22	8.15	8.45	8.16	8.10	8.33	8.82	8.57	9.05	8.21	<0.01	pH units	TM73/PM11
Sample Type	Clay	Clay	Clay	Clayey Sand	Clay	Clay	Sand	Clay	Clay	Clay		None	PM13/PM0
Sample Colour	Medium Brown	Light Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Light Brown	Medium Brown	Medium Brown	Medium Brown		None	PM13/PM0
Other Items	stones and brick fragment	dry clay and stones	stones and sand	stones	stones	stones and roots	stones	stones, sand and roots	stones and sand	stones and sand		None	PM13/PM0
Mass of Dry Sample	-	-	-	-	-	-	-	-	-	-	<0.1	g	PM4/PM0

Jones Environmental Laboratory

Client Name: Smith Grant LLP
Reference: R1742B
Location: Heyford(Dorchester)
Contact: Dan Wayland
JE Job No.: 14/9392

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	61-62	63-64	65-66	67-68	69-70	71-72	73-74	75-76	77-78	79-80	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS26	D1B-SS27	D1B-SS28	D1B-SS29	D1B-SS30	D1B-SS31	D1B-SS32	D1B-SS33	D1B-SS34	D1B-SS35			
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	LOD/LOR	Units	Method No.
Antimony	<1	<1	<1	<1	1	<1	<1	2	1	<1	<1	mg/kg	TM30/PM15
Antimony	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Arsenic ^{#M}	15.9	14.7	10.5	9.8	26.0	12.8	16.8	24.7	24.4	17.7	<0.5	mg/kg	TM30/PM15
Arsenic	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Barium ^{#M}	58	43	32	21	77	33	93	89	84	55	<1	mg/kg	TM30/PM15
Barium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Beryllium	0.8	0.6	0.6	<0.5	1.2	<0.5	0.8	1.5	1.4	0.9	<0.5	mg/kg	TM30/PM15
Beryllium	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Cadmium ^{#M}	0.1	<0.1	<0.1	0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	<0.1	mg/kg	TM30/PM15
Cadmium	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Chromium ^{#M}	19.6	16.8	14.9	11.8	34.5	13.1	23.9	44.0	36.9	24.5	<0.5	mg/kg	TM30/PM15
Chromium	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Cobalt ^{#M}	6.7	5.4	4.4	3.1	10.2	3.4	6.9	12.9	11.4	7.3	<0.5	mg/kg	TM30/PM15
Cobalt	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Copper ^{#M}	10	42	8	5	22	6	12	14	14	9	<1	mg/kg	TM30/PM15
Copper	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Lead ^{#M}	19	10	14	<5	28	10	26	17	19	11	<5	mg/kg	TM30/PM15
Lead	-	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM62
Mercury ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Mercury	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Molybdenum ^{#M}	0.7	1.0	0.8	0.7	1.9	0.7	1.1	1.3	1.2	1.0	<0.1	mg/kg	TM30/PM15
Molybdenum	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Nickel ^{#M}	14.7	13.7	10.3	8.6	28.6	9.0	16.6	28.9	25.6	17.1	<0.7	mg/kg	TM30/PM15
Nickel	-	-	-	-	-	-	-	-	-	-	<0.7	mg/kg	TM30/PM62
Selenium ^{#M}	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	TM30/PM15
Selenium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Vanadium	50	43	37	32	76	30	52	101	85	58	<1	mg/kg	TM30/PM15
Vanadium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Water Soluble Boron ^{#M}	1.2	0.9	1.1	0.3	1.3	0.8	1.6	2.3	2.7	1.4	<0.1	mg/kg	TM74/PM32
Water Soluble Boron	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM74/PM61
Zinc ^{#M}	49	37	25	62	70	44	64	64	66	45	<5	mg/kg	TM30/PM15
Zinc	-	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM62

Jones Environmental Laboratory

Client Name: Smith Grant LLP
Reference: R1742B
Location: Heyford(Dorchester)
Contact: Dan Wayland
JE Job No.: 14/9392

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	61-62	63-64	65-66	67-68	69-70	71-72	73-74	75-76	77-78	79-80	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS26	D1B-SS27	D1B-SS28	D1B-SS29	D1B-SS30	D1B-SS31	D1B-SS32	D1B-SS33	D1B-SS34	D1B-SS35	LOD/LOR	Units	Method No.
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014			
PAH MS													
Naphthalene ^{#M}	<0.04	0.25	<0.04	<0.04	0.09	<0.80 _D	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	0.07	<0.03	<0.03	0.03	<0.60 _D	0.06	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene ^{#M}	<0.05	0.81	<0.05	<0.05	<0.05	<1.00 _D	0.07	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene ^{#M}	<0.04	0.74	<0.04	<0.04	<0.04	<0.80 _D	0.06	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene ^{#M}	0.17	6.74	0.04	<0.03	0.22	4.29 _D	0.73	<0.03	<0.03	0.05	<0.03	mg/kg	TM4/PM8
Anthracene [#]	0.04	1.98	<0.04	<0.04	0.07	<0.80 _D	0.22	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Fluoranthene ^{#M}	0.48	8.23	0.10	<0.03	0.62	4.16 _D	1.33	<0.03	0.05	0.09	<0.03	mg/kg	TM4/PM8
Pyrene [#]	0.42	6.67	0.09	<0.03	0.54	2.95 _D	1.06	<0.03	0.05	0.08	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene [#]	0.23	2.91	0.09	<0.06	0.29	2.05 _D	0.82	<0.06	<0.06	<0.06	<0.06	mg/kg	TM4/PM8
Chrysene ^{#M}	0.26	2.76	0.07	<0.02	0.32	1.41 _D	0.74	<0.02	0.03	0.06	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene ^{#M}	0.41	4.04	0.10	<0.07	0.58	<1.40 _D	1.26	<0.07	<0.07	<0.07	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene [#]	0.23	2.8	0.05	<0.04	0.39	<0.80 _D	0.67	<0.04	<0.04	0.05	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene ^{#M}	0.15	1.39	0.04	<0.04	0.22	<0.80 _D	0.47	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene [#]	<0.04	0.14	<0.04	<0.04	<0.04	<0.80 _D	0.07	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene [#]	0.15	1.32	0.05	<0.04	0.23	<0.80 _D	0.44	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
PAH 16 Total	2.5	40.9	0.6	<0.6	3.6	14.9 _D	8.0	<0.6	<0.6	<0.6	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	0.30	2.91	0.07	<0.05	0.42	<1.00 _D	0.91	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.11	1.13	0.03	<0.02	0.16	<0.40 _D	0.35	<0.02	<0.02	<0.02	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	99	98	95	93	95	95 _D	92	91	93	91	<0	%	TM4/PM8
TPH CWG													
Aliphatics													
>C5-C6 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 ^{#M}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>C12-C16 ^{#M}	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>C16-C21 ^{#M}	<7	<7	8	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>C21-C35 ^{#M}	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	mg/kg	TM5/PM16
Aromatics													
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>EC12-EC16	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>EC16-EC21	<7	26	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>EC21-EC35	<7	23	<7	<7	<7	31	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
Total aromatics C5-35	<19	49	<19	<19	<19	31	<19	<19	<19	<19	<19	mg/kg	TM5/PM16
Total aliphatics and aromatics(C5-35)	<38	49	<38	<38	<38	<38	<38	<38	<38	<38	<38	mg/kg	TM5/PM16
MTBE [#]													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Benzene [#]													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12

Please include all sections of this report if it is reproduced

Client Name: Smith Grant LLP
Reference: R1742B
Location: Heyford(Dorchester)
Contact: Dan Wayland
JE Job No.: 14/9392

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	61-62	63-64	65-66	67-68	69-70	71-72	73-74	75-76	77-78	79-80	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS26	D1B-SS27	D1B-SS28	D1B-SS29	D1B-SS30	D1B-SS31	D1B-SS32	D1B-SS33	D1B-SS34	D1B-SS35	LOD/LOR	Units	Method No.
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014			
Toluene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Ethylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
m/p-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
o-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
PCBs (Total vs Aroclor 1254)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Natural Moisture Content	11.7	14.0	9.5	8.1	11.5	8.0	10.9	14.2	14.2	13.5	<0.1	%	PM4/PM0
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM76
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Complex Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Organic Matter	2.5	0.7	1.3	0.5	3.0	0.6	1.0	1.3	1.6	0.8	<0.2	%	TM21/PM24
Electrical Conductivity @25C (5:1 ext)	229	156	498	<100	142	837	416	253	136	183	<100	uS/cm	TM76/PM58
pH #M	8.44	8.62	8.00	8.62	8.51	8.81	8.80	8.10	8.52	8.85	<0.01	pH units	TM73/PM11
Sample Type	Clay	Clay	Clay	Clay	Clay	Clayey Sand	Clay	Clay	Clay	Clay		None	PM13/PM0
Sample Colour	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Light Brown	Light Brown	Medium Brown	Medium Brown	Medium Brown		None	PM13/PM0
Other Items	stones	stones	stones, sand and clinker	stones and sand	stones	stones	stones	stones	stones	stones		None	PM13/PM0
Mass of Dry Sample	-	-	-	-	-	-	-	-	-	-	<0.1	g	PM4/PM0

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 14/9392

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

ABBREVIATIONS and ACRONYMS USED

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
OC	Outside Calibration Range
A	x10 Dilution
D	x20 Dilution

JE Job No: 14/9392

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465 and BS1377.	PM0	No preparation is required.				
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465 and BS1377.	PM0	No preparation is required.			AR	Yes
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.			AR	Yes
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.	Yes		AR	Yes
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.	Yes	Yes	AR	Yes
TM5	In-House method based on USEPA 8015B. Determination of Extractable Petroleum Hydrocarbons (EPH) in the carbon chain length range of C8-40 by GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS (carbon banding only) on soils. All accreditation is matrix specific.	PM16	Aliphatic/Aromatic fractionation			AR	Yes
TM5	In-House method based on USEPA 8015B. Determination of Extractable Petroleum Hydrocarbons (EPH) in the carbon chain length range of C8-40 by GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS (carbon banding only) on soils. All accreditation is matrix specific.	PM16	Aliphatic/Aromatic fractionation	Yes	Yes	AR	Yes
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID			AR	Yes
PM13	Soil Typing for MCERTS	PM0	No preparation is required.			AR	
TM16	In-House method based on USEPA 8270. Determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS. Accredited to ISO 17025 for waters. All accreditation is matrix specific. Quantification by Internal Standard method.	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.			AR	Yes

JE Job No: 14/9392

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM21	TOC and TC by Combustion	PM24	Eltra preparation			AD	Yes
TM30	Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry) using Thermo iCAP 6000 series instrument. Accredited to ISO 17025 for soils and waters and MCERTS accredited for Soils. All accreditation is matrix specific.	PM15	In-house method based on USEPA 3010A. Acid digestion of dried and crushed solid samples using Aqua Regia reflux.			AD	Yes
TM30	Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry) using Thermo iCAP 6000 series instrument. Accredited to ISO 17025 for soils and waters and MCERTS accredited for Soils. All accreditation is matrix specific.	PM15	In-house method based on USEPA 3010A. Acid digestion of dried and crushed solid samples using Aqua Regia reflux.	Yes	Yes	AD	Yes
TM30	Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry) using Thermo iCAP 6000 series instrument. Accredited to ISO 17025 for soils and waters and MCERTS accredited for Soils. All accreditation is matrix specific.	PM62	Aqua Regia extraction (Soils) (as received sample)			AR	Yes
TM31	In-house method based on USEPA 8015B. Determination of Methyltertbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID. Accredited to ISO 17025 for soils and waters and MCERTS accredited for soils. Accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific			AR	Yes
TM31	In-house method based on USEPA 8015B. Determination of Methyltertbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID. Accredited to ISO 17025 for soils and waters and MCERTS accredited for soils. Accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific	Yes		AR	Yes
TM36	In-House method based on USEPA 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C5-12 by headspace GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS accredited (carbon banding only) on soils. All accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific			AR	Yes
TM36	In-House method based on USEPA 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C5-12 by headspace GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS accredited (carbon banding only) on soils. All accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific	Yes	Yes	AR	Yes
TM38	Ionic analysis using the Thermo Aquakem Photometric Automatic Analyser. Accredited to ISO17025 and MCERTS for most analytes. All accreditation is matrix specific.	PM76	As received samples are extracted using Sodium Hydroxide			AR	Yes
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres			AR	

JE Job No: 14/9392

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres	Yes		AR	
TM73	pH in by Metrohm	PM11	1:2.5 soil/water extraction	Yes	Yes	AR	No
TM74	Water Soluble Boron by ICP-OES	PM32	Preparation of soils for WSB	Yes	Yes	AD	Yes
TM74	Water Soluble Boron by ICP-OES	PM61	Preparation of soils for WSB (as received sample)			AR	Yes
TM76	Electrical Conductivity by Metrohm	PM58	Preparation of sample for Electrical Conductivity			AD	Yes
TM89	In-house method based on USEPA method OIA-1667. Determination of cyanide by Flow Injection Analyser. ISO17025 accredited method for soils and waters and MCERTS on soils. Accreditation is matrix specific.	PM45	Cyanide & Thiocyanate prep for soils			AR	Yes



Final Report

Report Number: 14-08436 Issue-1

Initial Date of Issue: 29-Aug-14

Client: Smith Grant LLP

Client Address: Station House, Station Road
Ruabon
Wrexham
LL14 6DL

Contact(s): Dan Wayland

Project: R1742B - Upper Heyford (Dorchester)

Quotation No.: **Date Received:** 21-Aug-14

Order No.: **Date Instructed:** 21-Aug-14

No. of Samples: 8 **Results Due:** 01-Sep-14

**Turnaround:
(Weekdays)** 7

Date Approved: 29-Aug-14

Approved By:

Details: Keith Jones, Technical Manager

The results reported herein relate only to the material supplied to the laboratory.
This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Results Summary - Soil

Report Number: 14-08436 Issue-1

Project: R1742B - Upper Heyford (Dorchester)

Client: Smith Grant LLP	Chemtest Sample ID.:				42030	42031	42032	42033	42034	42035	42036	42037
Quotation No.:	Client Sample Ref.:											
Order No.:	Client Sample ID.:				D1B-NE-AGG1	D1B-NE-AGG2	D1B-NE-AGG3	D1B-NE-AGG4	D1B-NE-AGG5	D1B-NE-AGG6	D1B-NE-AGG7	D1B-NE-AGG8
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):											
	Bottom Depth(m):											
	Date Sampled:				19-Aug-14	19-Aug-14	19-Aug-14	19-Aug-14	19-Aug-14	19-Aug-14	19-Aug-14	19-Aug-14
Determinand	Accred.	SOP	Units	LOD								
ACM Type	U	2192			-	-	-	-	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVCOs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at our Coventry laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

Sample Retention and Disposal

All soil samples will be retained for a period of 1 month following the date of the test report

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

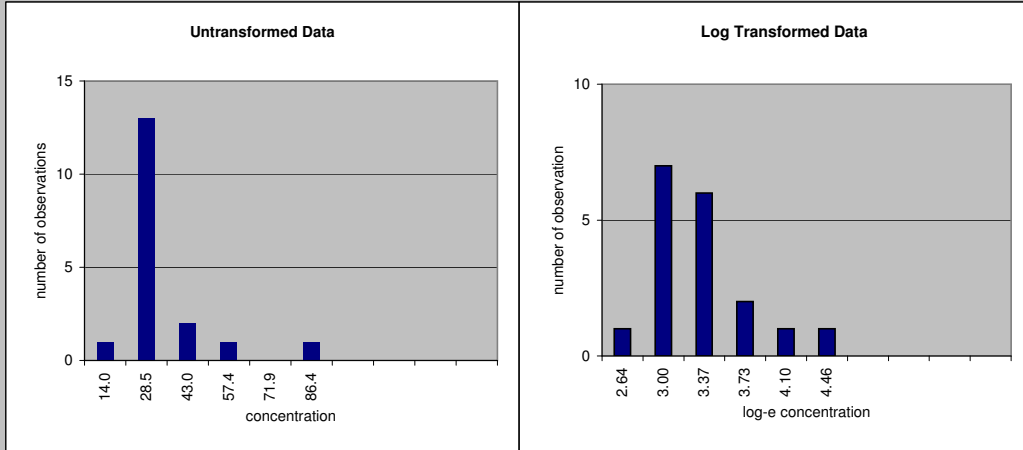
customerservices@chemtest.co.uk

APPENDIX D

Statistical Analysis

Contaminated Land Assessment - Statistical Spreadsheet

1. Data review bell-shaped histograms indicate a normal-type distribution



Use log-transformed data?

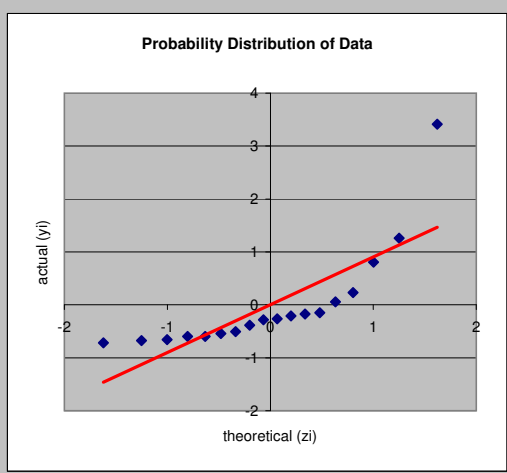
2. Check for statistical outliers Grubbs Test - assumes that data other than outlier(s) are normally distributed

$T_{crit} =$ $T_n =$ log transformed $T_n =$

maximum value mg/kg is an outlier at confidence level

note: outliers should only be removed in particular circumstances

3. Assessment of normal distribution



Shapiro-Wilk normality test

$W =$

significance level	<input type="text" value="0.01"/>	<input type="text" value="0.05"/>
critical level	<input type="text" value="0.858"/>	<input type="text" value="0.897"/>

W is less than the critical value at 5% significance level

Are data points aligned close to red line, indicating a normal distribution?

Non-parametric testing (Chebychev Theorem) is appropriate

4. Significance Tests Against Critical Value

Non-parametric Chebychev Test

sample mean = mg/kg sample unbiased standard deviation = mg/kg

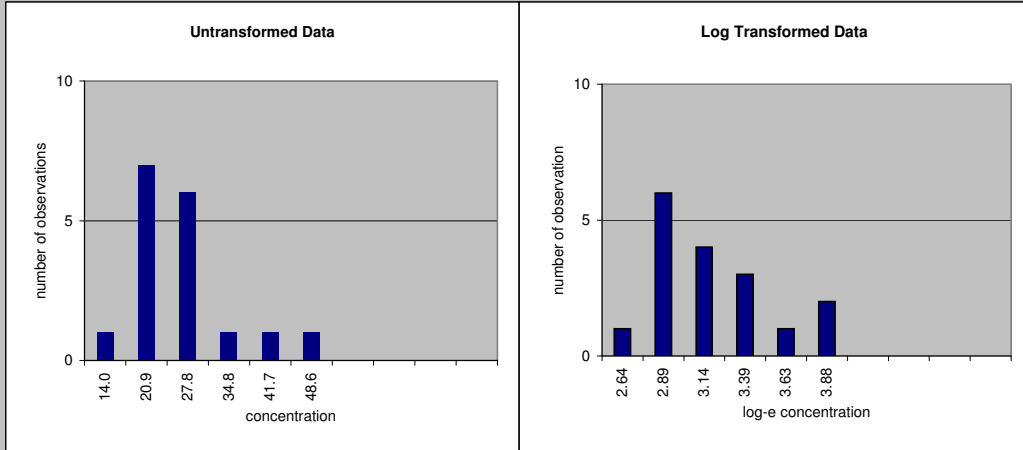
k statistic = critical value =

k statistic is not less than critical value **null hypothesis cannot be rejected**

upper confidence limit (UCL 0.95) = mg/kg

Contaminated Land Assessment - Statistical Spreadsheet

1. Data review bell-shaped histograms indicate a normal-type distribution



Use log-transformed data?

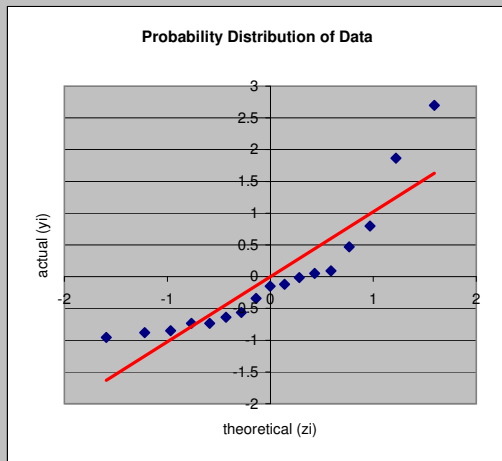
2. Check for statistical outliers Grubbs Test - assumes that data other than outlier(s) are normally distributed

$T_{crit} = 2.47$ $T_n = 2.70$ log transformed $T_n = 2.29$

maximum value 48.6 mg/kg is an outlier at 95% confidence level

note: outliers should only be removed in particular circumstances

3. Assessment of normal distribution



Shapiro-Wilk normality test

W = 0.820

significance level	0.01	0.05
critical level	0.851	0.892

W is less than the critical value at 5% significance level

Are data points aligned close to red line, indicating a normal distribution?

Non-parametric testing (Chebychev Theorem) is appropriate

4. Significance Tests Against Critical Value

Non-parametric Chebychev Test

sample mean = 23.03529 mg/kg

sample unbiased standard deviation = 9.47 mg/kg

k statistic = -3.904

critical value = -4.360

k statistic is not less than critical value **null hypothesis cannot be rejected**

upper confidence limit (UCL 0.95) = 33.05 mg/kg

Job name	Dorchester Phase D1B:Area1
Job no.	R1742b
Date:	30.10.14
Author:	DW
Laboratory:	Jones Environmental Ltd
Lab. Reference:	14/9392, 14/10872, 14/12802



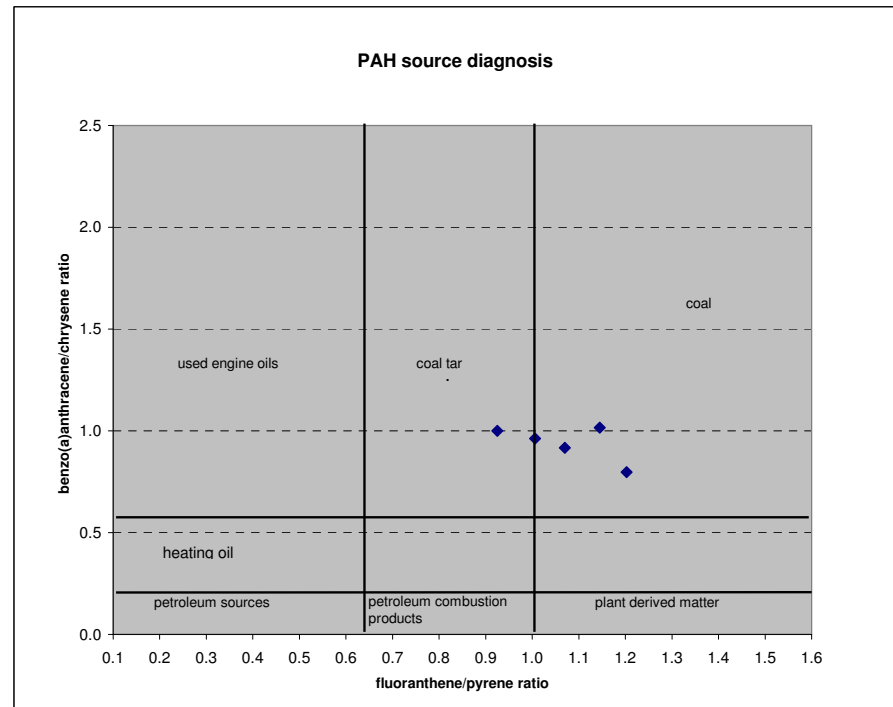
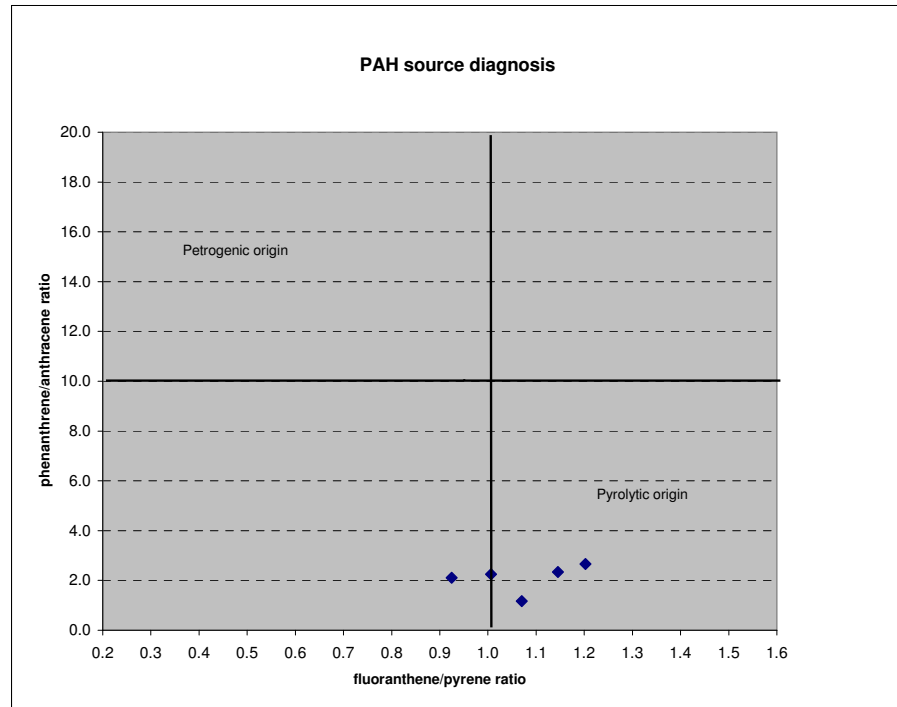
PAH concentrations

sample identity	D1B-SS2	D1B-SS9	D1B-SS38	D1B-SS38B	D1B-SS28C														
phenanthrene	1.15	0.24	0.63	0.19	0.14														
anthracene	0.51	0.09	0.27	0.09	0.12														
fluoranthene	3.17	0.95	2.21	0.86	1.68														
pyrene	3.15	0.79	1.93	0.93	1.57														
benz(a)anthracene	1.56	0.75	1.35	0.58	1.32														
chrysene	1.62	0.94	1.33	0.58	1.44														

PAH units mg/kg

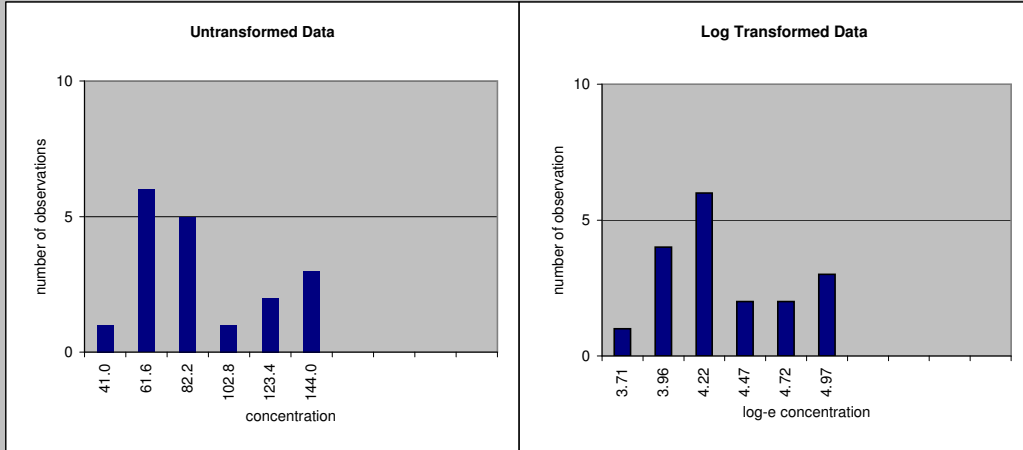
PAH ratios

phe/ant	2.255	2.667	2.333	2.111	1.167														
flu/pyr	1.006	1.203	1.145	0.925	1.070														
baa/chr	0.963	0.798	1.015	1.000	0.917														



Contaminated Land Assessment - Statistical Spreadsheet

1. Data review bell-shaped histograms indicate a normal-type distribution



Use log-transformed data?

no ▼

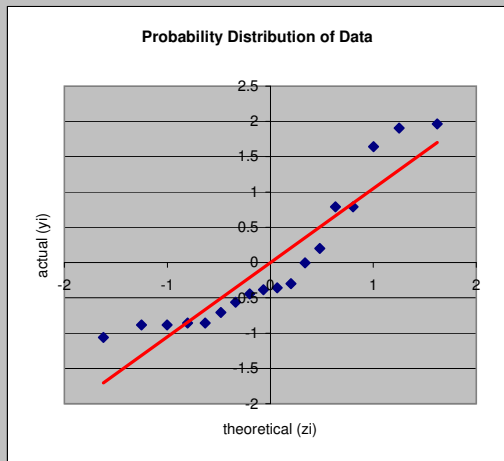
2. Check for statistical outliers Grubbs Test - assumes that data other than outlier(s) are normally distributed

$T_{crit} =$
 $T_n =$
 log transformed $T_n =$

maximum value mg/kg is not an outlier

note: outliers should only be removed in particular circumstances

3. Assessment of normal distribution



Shapiro-Wilk normality test

W = 0.845

significance level	<input type="text" value="0.01"/>	<input type="text" value="0.05"/>
critical level	<input type="text" value="0.858"/>	<input type="text" value="0.897"/>

W is less than the critical value at 5% significance level

Are data points aligned close to red line, indicating a normal distribution?

Non-parametric testing (Chebychev Theorem) is appropriate

4. Significance Tests Against Critical Value

Non-parametric Chebychev Test

sample mean = mg/kg

sample unbiased standard deviation = mg/kg

k statistic =

critical value =

k statistic is not less than critical value null hypothesis cannot be rejected

upper confidence limit (UCL 0.95) = 112.10 mg/kg