AA Environmental Ltd
Units 4-8 Cholswell Court
Shippon, Abingdon
Oxfordshire
OX13 6HX

Trial Pit Log

Trialpit No **TP03**

Sheet 1 of 1

Project Name:	Trenchard Circle	Project No. 163408	Co-ords: - Level:	Date 01/11/2016
Location:	Upper Heyford, Oxfordshire	Dimensions (m): Depth 2.00		Scale 1:25
Client:	Conlon Ltd			Logged JNT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.30	ES	PID=0	0.40			Brown clayey gravelly sand with occasional brick, wire, concrete and glass. [MADE GROUND]
				0.80			Highly weathered LIMESTONE recovered as limestone gravels and cobbles with silty sands.
	1.20	ES	PID=0	1.80			Highly weathered LIMESTONE recovered as a pale brown silty clay with limestone gravels and cobbles.
▼				2.00			Fractured LIMESTONE recovered as limestone gravels and cobbles.
							End of pit at 2.00 m

Remarks: METHOD: Machine excavated pit; CONTAMINATION: No visual or olfactory contamination; GROUNDWATER: Slow ingress at 2.0 m; NOTES: None.

Stability: Stable.

AGS

AA Environmental Ltd
Units 4-8 Cholswell Court
Shippon, Abingdon
Oxfordshire
OX13 6HX

Trial Pit Log

Trialpit No **TP04**

Sheet 1 of 1

Project Name:	Trenchard Circle	Project No. 163408	Co-ords: - Level:	Date 01/11/2016
Location:	Upper Heyford, Oxfordshire		Dimensions (m): Depth 2.10	Scale 1:25
Client:	Conlon Ltd			Logged JNT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.25	ES	PID=0	0.30			Brown clayey gravelly sand with occasional brick, roots, wood, wire, concrete and glass. [MADE GROUND]
				1.00			Highly weathered LIMESTONE recovered as a pale brown silty gravelly sand.
▼	1.80 - 2.00	ES	PID=0	2.00			Highly weathered LIMESTONE recovered as a pale brown silty sand with limestone gravels and cobbles.
				2.10			Fractured LIMESTONE recovered as limestone gravels and cobbles. End of pit at 2.10 m

Remarks: METHOD: Machine excavated pit; CONTAMINATION: No visual or olfactory contamination; GROUNDWATER: Slow ingress 2.1 m; NOTES: None.

Stability: Stable.

AGS

AA Environmental Ltd
Units 4-8 Cholswell Court
Shippon, Abingdon
Oxfordshire
OX13 6HX

Trial Pit Log

Trialpit No **TP05**

Sheet 1 of 1

Project Name:	Trenchard Circle	Project No. 163408	Co-ords: - Level:	Date 01/11/2016
Location:	Upper Heyford, Oxfordshire	Dimensions (m): Depth 2.40		Scale 1:25
Client:	Conlon Ltd			Logged JNT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.30 - 0.50	ES	PID=0				Brown clayey gravelly sand with pea gravels fill and occsional brick, roots, wood, wire, concrete and glass. [MADE GROUND]
				1.00			Highly weathered LIMESTONE recovered as a pale brown silty sand with limestone gravels and cobbles.
	2.20	ES	PID=0	2.20			Fractured LIMESTONE recovered as limestone gravels and cobbles.
				2.40			End of pit at 2.40 m

Remarks: METHOD: Machine excavated pit; CONTAMINATION: No visual or olfactory contamination; GROUNDWATER: None encountered; NOTES: None.

Stability: Stable.

AGS

AA Environmental Ltd
Units 4-8 Cholswell Court
Shippon, Abingdon
Oxfordshire
OX13 6HX

Trial Pit Log

Trialpit No
TP06
Sheet 1 of 1

Project Name:	Trenchard Circle	Project No. 163408	Co-ords: - Level:	Date 01/11/2016
Location:	Upper Heyford, Oxfordshire	Dimensions (m): Depth 1.70		Scale 1:25
Client:	Conlon Ltd			Logged JNT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.20	ES	PID=0	0.25			Brown clayey gravelly sand with occasional brick, roots, wood, wire, concrete and glass. [MADE GROUND]
							Highly weathered LIMESTONE recovered as a pale brown silty sand with limestone gravels and cobbles.
	1.50	ES	PID=0	1.30			Fractured LIMESTONE recovered as limestone gravels and cobbles.
				1.70			End of pit at 1.70 m

Remarks: METHOD: Machine excavated pit; CONTAMINATION: No visual or olfactory contamination; GROUNDWATER: None encountered; NOTES: None.

Stability: Stable.

AGS

AA Environmental Ltd
Units 4-8 Cholswell Court
Shippon, Abingdon
Oxfordshire
OX13 6HX

Trial Pit Log

Trialpit No **TP07**
Sheet 1 of 1

Project Name:	Trenchard Circle	Project No. 163408	Co-ords: - Level:	Date 01/11/2016
Location:	Upper Heyford, Oxfordshire	Dimensions (m): Depth 1.50		Scale 1:25
Client:	Conlon Ltd			Logged JNT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.20	ES	PID=0	0.20			Brown loamy sandy topsoil with occasional brick, concrete and glass. [MADE GROUND]
			PID=0	1.40			Highly weathered LIMESTONE recovered as a pale brown silty sand with limestone gravels and cobbles.
	1.70	ES		1.50			Fractured LIMESTONE recovered as limestone gravels and cobbles.
							End of pit at 1.50 m

Remarks: METHOD: Machine excavated pit; CONTAMINATION: No visual or olfactory contamination; GROUNDWATER: None encountered; NOTES: None.

Stability: Stable.

AGS

Borehole Log

Borehole No.
BH 01
Sheet 1 of 1

Project Name: Upper Heford Remediation	Project No. 173042	Co-ords: -	Hole Type RO
Location: Upper Heyford		Level:	Scale 1:50
Client: Agetur UK		Dates: 20/02/2017 - 20/02/2017	Logged By TR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
								TOP SOIL / CLAY. BROWN IN COLOUR** GREAT OOLITE GROUP (limestone weathered to a residual soil)
					1.10			ROCK HEAD. YELLOW SANDSTONE** GREAT OOLITE GROUP (destructured limestone)
					2.50			GREY SILTSTONE OR LIMESTONE WITH FREQUENT SOFT OR WEAK CLAY FORMATIONS THOUGHOUT** GREAT OOLITE GROUP (distinctly weathered limestone)
					10.00			End of borehole at 10.00 m

Remarks
METHOD: Machine operated breaker and manually excavated pit to 1.20m, rotary drilling with air flush thereafter;
CONTAMINATION: No visual or olfactory evidence of contamination; GROUNDWATER: Noted from approximately 2.0m;
NOTES: ** Denotes drillers description

Borehole Log

Borehole No.
BH 02
Sheet 1 of 1

Project Name: Upper Heford Remediation	Project No. 173042	Co-ords: -	Hole Type RO
Location: Upper Heyford		Level:	Scale 1:50
Client: Agetur UK		Dates: 21/02/2017 - 21/02/2017	Logged By TR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
								TOP SOIL / CLAY** GREAT OOLITE GROUP (limestone weathered to a residual soil)
					1.10			YELLOW SANDSTONE. ROCK HEAD** GREAT OOLITE GROUP (destructured limestone)
					2.50			GREY LIMESTONE WITH WEAK DARK GREY CLAY FORMATIONS THROUGHOUT** GREAT OOLITE GROUP (distinctly weathered limestone)
					10.00			End of borehole at 10.00 m

Remarks
METHOD: Machine operated breaker and manually excavated pit to 1.20m, rotary drilling with air flush thereafter;
CONTAMINATION: No visual or olfactory evidence of contamination; GROUNDWATER: Noted from approximately 2.0m;
NOTES: ** Denotes drillers description

Borehole Log

Borehole No.
BH 03
Sheet 1 of 1

Project Name: Upper Heford Remediation	Project No. 173042	Co-ords: -	Hole Type RO
Location: Upper Heyford		Level:	Scale 1:50
Client: Agetur UK		Dates: 21/02/2017 - 21/02/2017	Logged By TR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
								TOP SOIL. CLAY** GREAT OOLITE GROUP (limestone weathered to a residual soil)
					1.00			YELLOW SANDSTONE. ROCK HEAD** GREAT OOLITE GROUP (destructured limestone)
					2.50			GREY LIMESTONE WITH DARK GREY WEAK CLAY FORMATIONS THROUGHOUT** GREAT OOLITE GROUP (distinctly weathered limestone)
					10.00			End of borehole at 10.00 m

Remarks
METHOD: Machine operated breaker and manually excavated pit to 1.20m, rotary drilling with air flush thereafter;
CONTAMINATION: No visual or olfactory evidence of contamination; GROUNDWATER: Noted from approximately 2.0m;
NOTES: ** Denotes drillers description

Borehole Log

Borehole No.
BH 04
Sheet 1 of 1

Project Name: Upper Heford Remediation	Project No. 173042	Co-ords: -	Hole Type RO
Location: Upper Heyford		Level:	Scale 1:50
Client: Agetur UK		Dates: 21/02/2017 - 21/02/2017	Logged By TR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
								TOP SOIL. CLAY** GREAT OOLITE GROUP (limestone weathered to a residual soil)
					1.00			YELLOW SANDSTONE. ROCK HEAD** GREAT OOLITE GROUP (destructured limestone)
					2.50			GREY LIMESTONE WITH WEAK DARK GREY FORMATIONS THROUGHOUT** GREAT OOLITE GROUP (distinctly weathered limestone)
					10.00			End of borehole at 10.00 m

Remarks
METHOD: Machine operated breaker and manually excavated pit to 1.20m, rotary drilling with air flush thereafter;
CONTAMINATION: No visual or olfactory evidence of contamination; GROUNDWATER: Noted from approximately 2.0m;
NOTES: ** Denotes drillers description

Borehole Log

Borehole No.
BH 05
Sheet 1 of 1

Project Name: Upper Heford Remediation	Project No. 173042	Co-ords: -	Hole Type RO
Location: Upper Heyford		Level:	Scale 1:50
Client: Agetur UK		Dates: 22/02/2017 - 22/02/2017	Logged By TR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
								TOP SOIL. CLAY** GREAT OOLITE GROUP (limestone weathered to a residual soil)
					1.00			YELLOW SANDSTONE. ROCK HEAD** GREAT OOLITE GROUP (destructured limestone)
					2.50			GREY LIMESTONE WITH WEAK DARK GREY CLAY FORMATIONS THROUGHOUT** GREAT OOLITE GROUP (distinctly weathered limestone)
					10.00			End of borehole at 10.00 m

Remarks
METHOD: Machine operated breaker and manually excavated pit to 1.20m, rotary drilling with air flush thereafter;
CONTAMINATION: No visual or olfactory evidence of contamination; GROUNDWATER: Noted from approximately 2.0m;
NOTES: ** Denotes drillers description

Borehole Log

Borehole No.
BH 06
Sheet 1 of 1

Project Name: Upper Heford Remediation	Project No. 173042	Co-ords: -	Hole Type RO
Location: Upper Heyford		Level:	Scale 1:50
Client: Agetur UK		Dates: 22/02/2017 - 22/02/2017	Logged By TR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.40			TOP SOIL. CLAY** GREAT OOLITE GROUP (limestone weathered to a residual soil)
					2.00			YELLOW SANDSTONE. ROCK HEAD. MUCH MORE SHALLOW THAN OREVIOUS BHs** GREAT OOLITE GROUP (destructured limestone)
					10.00			GREY LIMESTONE. VERY INFREQUENT WEAK FORMATIONS. STRONG LIMESTONE MOST OF THE DEPTH** GREAT OOLITE GROUP (distinctly weathered limestone)
								End of borehole at 10.00 m

1 2 3 4 5 6 7 8 9 10

Remarks
METHOD: Machine operated breaker and manually excavated pit to 1.20m, rotary drilling with air flush thereafter;
CONTAMINATION: No visual or olfactory evidence of contamination; GROUNDWATER: Noted from approximately 2.0m;
NOTES: ** Denotes drillers description

APPENDIX B

Rising head test data

Average of 3 tests

K m/s	1.86E-06
K m/d	0.16

Rising Head Test Data BH02

Logger in at 1553

Logger out at 1626

Test 1		K m/s
Bail in Time	1554	1.70E-06
Test Start Time (Bailer Removed)	1558	K m/d
Starting DTW below casing (m)	1.080	0.15

Time (sec)	DTW below casing (m)	Drawdown (m)
45	1.360	0.280
60	1.310	0.230
90	1.240	0.160
120	1.200	0.120
150	1.165	0.085
180	1.145	0.065
210	1.130	0.050
240	1.115	0.035
270	1.110	0.030
300	1.105	0.025
330	1.100	0.020
360	1.100	0.020
420	1.095	0.015
480	1.090	0.010

Test End	1606

Test 2		K m/s
Bail Time	1606	2.21E-06
Test Start Time (Bailer Removed)	1607	K m/d
Starting DTW below casing (m)	1.090	0.19

Time (se	DTW below casing (m)	
30	1.280	0.190
60	1.275	0.185
90	1.230	0.140
120	1.180	0.090
150	1.150	0.060
180	1.130	0.040
210	1.115	0.025
240	1.110	0.020
300	1.100	0.010
360	1.100	0.010
500	1.090	0.000

Test End	1615

Test 3		K m/s
Bail Time	1616	1.66E-06
Test Start Time (Bailer Removed)	1616	K m/d
Starting DTW below casing (m)	1.090	0.14

Time (Se	DTW below casing (m)	
30	1.270	0.180
60	1.270	0.180
90	1.220	0.130
120	1.185	0.095
150	1.155	0.065
180	1.135	0.045
240	1.115	0.025
300	1.115	0.025
360	1.100	0.010
480	1.095	0.005
600	1.090	0.000

Test End	1626

BH02 Test 1

TIME (S)	H=Drawdown (m)	Ln H	Ln H Not included
45	0.28	-1.27	
60	0.23	-1.47	
90	0.16	-1.83	
120	0.12	-2.12	
150	0.09	-2.47	
180	0.06	-2.73	
210	0.05	-3.00	
240	0.03	-3.35	
270	0.03	-3.51	
300	0.02		-3.69
330	0.02		-3.91
360	0.02		-3.91
420	0.01		-4.20
480	0.01		-4.61

Parameter	Value	Unit	Comment (see NOTES also)
Average stable water level of diver		cm water level	average w.l. above diver before slug taken
stat_wl	1.08	mbtc	water level taken before test
base_screen	10	mbtc	
top_screen	2.6	mbtc	
L	7.4	m	length of response zone
D_casing	0.05	m	diameter of casing
D_filter	0.15	m	diameter of drilled well
Porosity filter	0.3		porosity of gravel pack estimated
A_casing	1.9635E-03	m2	depends on water level
D_{EFF}	0.05		
F	11.5651		

Parameter	Regresion	Unit
Gradient	-0.01	
T1	0	s
T2	100	s
Ln_H1	0.000	m
Ln_H2	-1.000	m
K_1	1.70E-06	m/s
K_2	0.15	m/d

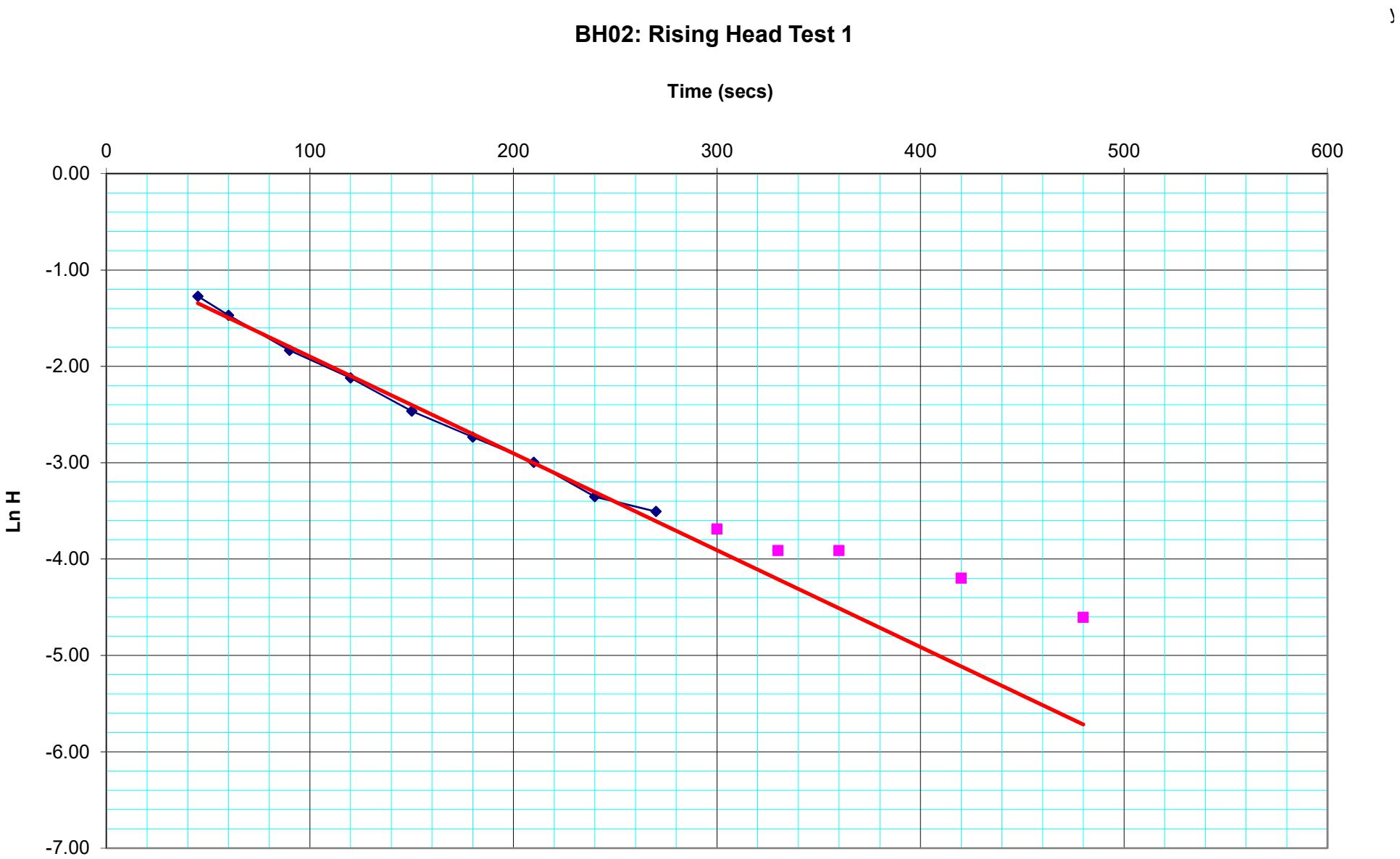
$$\frac{F}{D} = \frac{2.32\pi(L/D)}{\ln\left(\{1.1(L/D)\} + \sqrt{\{1 + 1.1(L/D)^2\}}\right)}$$

Figure 7 in BS5930 :1999

NOTES

1) **L** is the *"length of the response zone"*. It is calculated by means of an IF function so you don't have to calculate it every time.
2) **D_casing** is the *"diameter of the screened pipe"*
3) **D_filter** is the *"diameter of the drilled hole"*.
4) **A_casing** is the *"area of the casing"* and it depends on where the static water level lies with respect to the top of the screened pipe. It automatically filled by a IF function.
5) **DEFF** is a checking value. If all parameters have been correctly inserted then it's values will be near the D_casing value.
6) **F** is the formation factor.
7) **Gradient** is the slope of the regression taken from the associated chart

NB All cells where your intervention is not necessary have been locked.


BH02: Rising Head Test 1
Time (secs)
0
100
200
300
400
500
600
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
-6.00
-7.00
Ln H

BH02 Test 2

TIME (S)	H=Drawdown (m)	Ln H	Ln H Not included
30	0.19		-1.66
60	0.19	-1.69	
90	0.14	-1.97	
120	0.09	-2.41	
150	0.06	-2.81	
180	0.04	-3.22	
210	0.02	-3.69	
240	0.02	-3.91	
300	0.01		-4.61
360	0.01		-4.61

Parameter	Value	Unit	Comment (see NOTES also)
Average stable water level of diver		cm water level	average w.l. above diver before slug taken
stat_wl	1.09	mbtc	water level taken before test
base_screen	10	mbtc	
top_screen	2.6	mbtc	
L	7.4	m	length of response zone
D_casing	0.05	m	diameter of casing
D_filter	0.15	m	diameter of drilled well
Porosity filter	0.3		porosity of gravel pack estimated
A_casing	1.9635E-03	m2	depends on water level
D_{EFF}	0.05		
F	11.5651		

Parameter	Regresion	Unit
Gradient	-0.013	
T1	0	s
T2	100	s
Ln_H1	0.000	m
Ln_H2	-1.300	m
K_1	2.21E-06	m/s
K_2	0.19	m/d

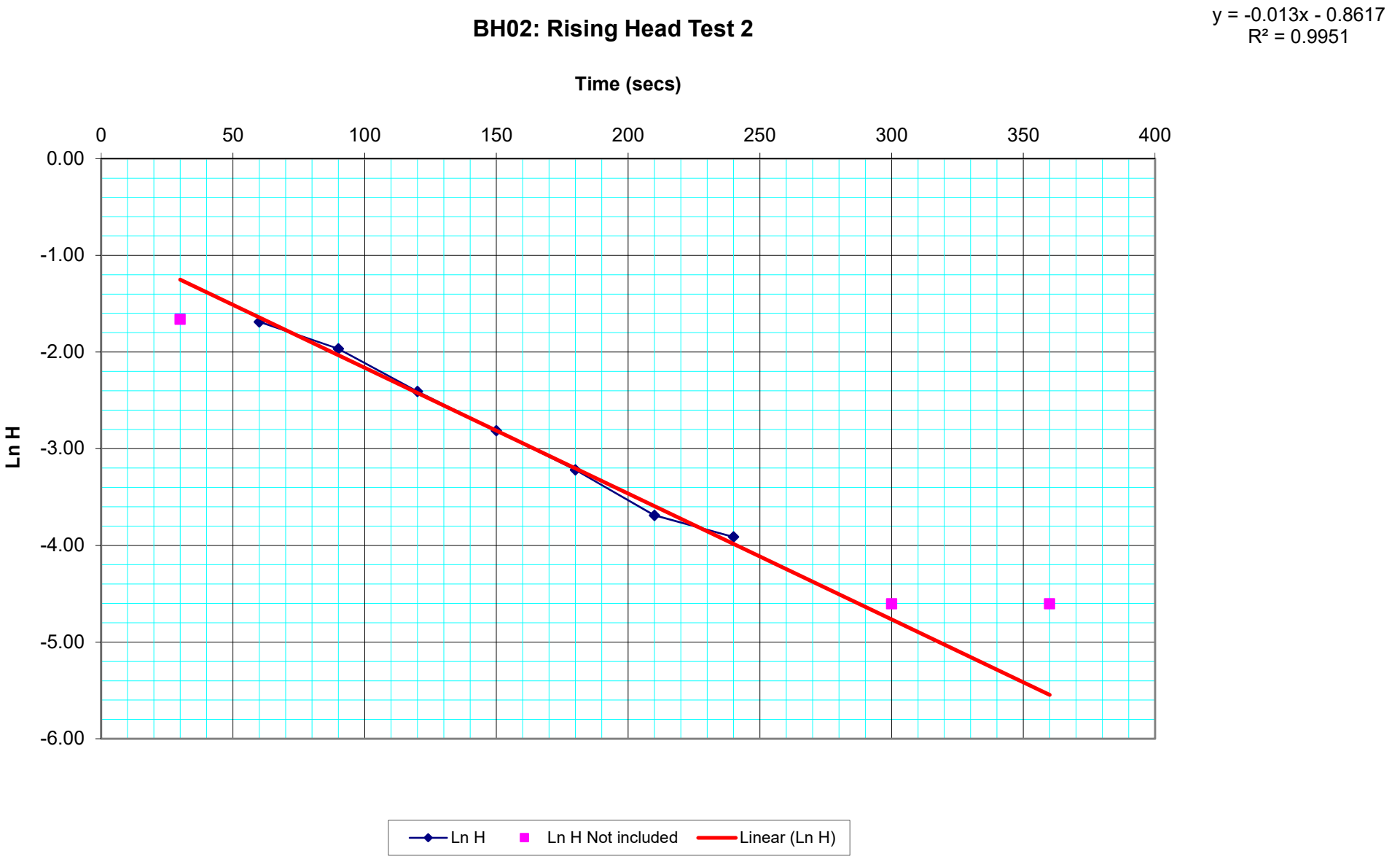
$$\frac{F}{D} = \frac{2.32\pi(L/D)}{\ln\left(\{1.1(L/D)\} + \sqrt{\{1+1.1(L/D)^2\}}\right)}$$

Figure 7 in BS5930 : 1999

NOTES

1) **L** is the *"length of the response zone"*. It is calculated by means of an IF function so you don't have to calculate it every time.
2) **D_casing** is the *"diameter of the screened pipe"*
3) **D_filter** is the *"diameter of the drilled hole"*.
4) **A_casing** is the *"area of the casing"* and it depends on where the static water level lies with respect to the top of the screened pipe. It automatically filled by a IF function.
5) **D_{EFF}** is a checking value. If all parameters have been correctly inserted then it's values will be near the D_casing value.
6) **F** is the formation factor.
7) **Gradient** is the slope of the regression taken from the associated chart

NB All cells where your intervention is not necessary have been locked.


BH02: Rising Head Test 2
y = -0.013x - 0.8617
R² = 0.9951
Time (secs)
0
50
100
150
200
250
300
350
400
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
-6.00
Ln H
Ln H
Ln H Not included
Linear (Ln H)

BH02 Test 3

TIME (S)	H=Drawdown (m)	Ln H	Ln H Not included
30	0.18		-1.71
60	0.18	-1.71	
90	0.13	-2.04	
120	0.10	-2.35	
150	0.06	-2.73	
180	0.04	-3.10	
240	0.02	-3.69	
300	0.02		-3.69
360	0.01	-4.61	
480	0.00		-5.30
600	0.00		

Parameter	Value	Unit	Comment (see NOTES also)
Average stable water level of diver		cm water level	average w.l. above diver before slug taken
stat_wl	1.09	mbtc	water level taken before test
base_screen	10	mbtc	
top_screen	2.6	mbtc	
L	7.4	m	length of response zone
D_casing	0.05	m	diameter of casing
D_filter	0.15	m	diameter of drilled well
Porosity filter	0.3		porosity of gravel pack estimated
A_casing	1.9635E-03	m2	depends on water level
D_{EFF}	0.05		
F	11.5651		

Parameter	Regresion	Unit
Gradient	-0.0098	
T1	0	s
T2	100	s
Ln_H1	0.000	m
Ln_H2	-0.980	m
K_1	1.66E-06	m/s
K_2	0.14	m/d

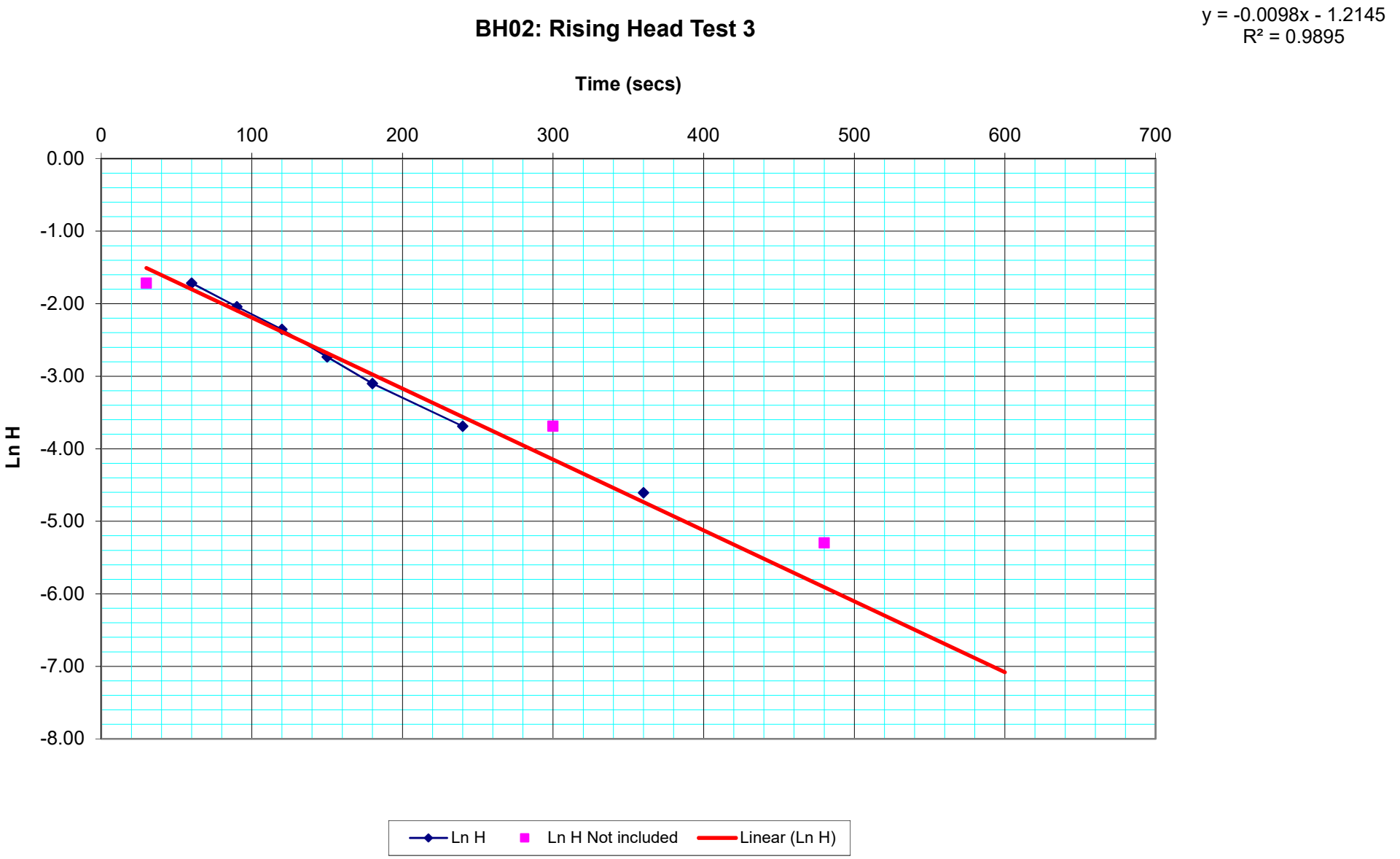
$$\frac{F}{D} = \frac{2.32\pi(L/D)}{\ln\left(\{1.1(L/D)\} + \sqrt{\{1+1.1(L/D)^2\}}\right)}$$

Figure 7 in BS5930 : 1999

NOTES

1) **L** is the *"length of the response zone"*. It is calculated by means of an IF function so you don't have to calculate it every time.
2) **D_casing** is the *"diameter of the screened pipe"*
3) **D_filter** is the *"diameter of the drilled hole"*.
4) **A_casing** is the *"area of the casing"* and it depends on where the static water level lies with respect to the top of the screened pipe. It automatically filled by a IF function.
5) **D_{EFF}** is a checking value. If all parameters have been correctly inserted then it's values will be near the D_casing value.
6) **F** is the formation factor.
7) **Gradient** is the slope of the regression taken from the associated chart

NB All cells where your intervention is not necessary have been locked.


BH02: Rising Head Test 3
y = -0.0098x - 1.2145
R² = 0.9895
Time (secs)
0
100
200
300
400
500
600
700
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
-6.00
-7.00
-8.00
Ln H
Ln H
Ln H Not included
Linear (Ln H)

Rising Head Test Data BH05

Logger in at 1459

Logger out at 1547

K m/s	7.64E-07
Km/d	0.066

Test 1		K m/s
Bail Time	1504	8.83E-07
Test Start Time (Bailer Removed)	1504	Km/d
Starting DTW below casing (m)	1.400	0.076

Time (sec)	DTW below	Drawdown (m)
30	1.460	0.060
60	1.470	0.070
90	1.440	0.040
120	1.435	0.035
150	1.430	0.030
180	1.425	0.025
240	1.420	0.020
300	1.420	0.020
360	1.415	0.015
420	1.415	0.015
500	1.410	0.010
560	1.410	0.010
620	1.410	0.010

Test End Ti	1515

Test 2		K m/s
Bail Time	1515	7.30E-07
Test Start Time (Bailer Removed)	1515	Km/d
Starting DTW below casing (m)	1.410	0.063

Time (sec)	DTW below	Drawdown (m)
30	1.480	0.070
60	1.465	0.055
90	1.460	0.050
120	1.450	0.040
150	1.440	0.030
180	1.440	0.030
240	1.435	0.025
300	1.430	0.020
360	1.425	0.015
420	1.420	0.010
540	1.415	0.005
660	1.415	0.005
780	1.410	0.000

Test End Tir	1529

Test 3		K m/s
Bail Time	1531	6.79E-07
Test Start Time (Bailer Removed)	1532	Km/d
Starting DTW below casing (m)	1.410	0.059

Time (Sec)	DTW below	Drawdown (m)
30	1.470	0.060
60	1.460	0.050
90	1.450	0.040
120	1.445	0.035
180	1.440	0.030
240	1.430	0.020
360	1.425	0.015
540	1.420	0.010
840	1.415	0.005

Test End Tir	1547

BH01/10 Test 1

TIME (S)	H=Drawdown (m)	Ln H	Ln H Not included
30	0.06	-2.81	
60	0.07		-2.66
90	0.04	-3.22	
120	0.04	-3.35	
150	0.03	-3.51	
180	0.03	-3.69	
240	0.02	-3.91	
300	0.02		-3.91
360	0.02		-4.20
420	0.02		-4.20
500	0.01		-4.61
560	0.01		-4.61
620	0.01		-4.61

Parameter	Value	Unit	Comment (see NOTES also)
Average stable water level of diver		cm water level	average w.l. above diver before slug taken
stat_wl	1.4	mbtc	water level taken before test
base_screen	10	mbtc	
top_screen	2.6	mbtc	
L	7.4	m	length of response zone
D_casing	0.05	m	diameter of casing
D_filter	0.15	m	diameter of drilled well
Porosity filter	0.3		porosity of gravel pack estimated
A_casing	1.9635E-03	m2	depends on water level
D_{EFF}	0.05		
F	11.5651		

Parameter	Regresion	Unit
Gradient	-0.0052	
T1	0	s
T2	100	s
Ln_H1	0.000	m
Ln_H2	-0.520	m
K_1	8.83E-07	m/s
K_2	0.08	m/d

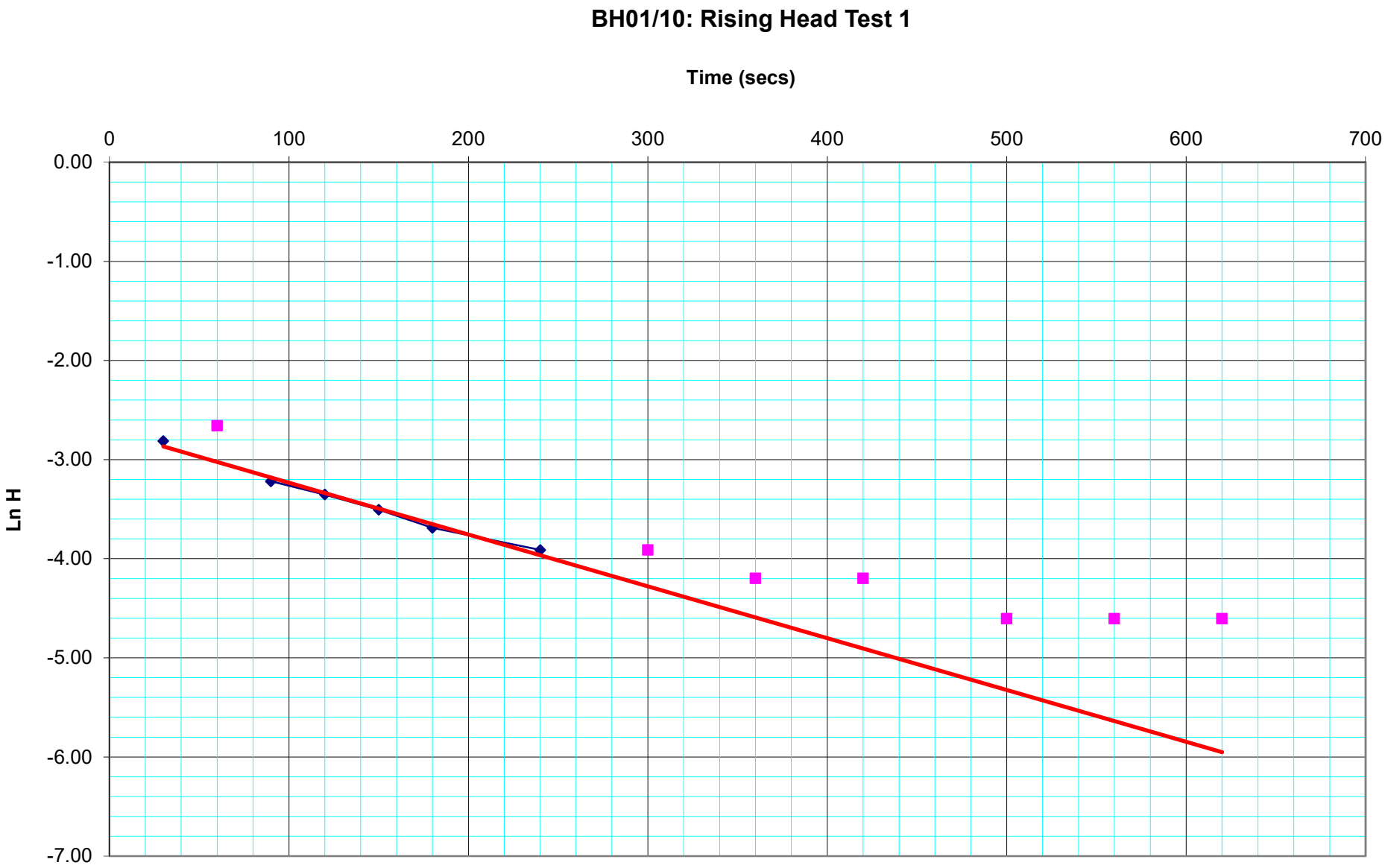
$$\frac{F}{D} = \frac{2.32\pi(L/D)}{\ln\left(\{1.1(L/D)\} + \sqrt{\{1 + 1.1(L/D)^2\}}\right)}$$

Figure 7 in BS5930 :1999

NOTES

1) **L** is the *"length of the response zone"*. It is calculated by means of an IF function so you don't have to calculate it every time.
2) **D_casing** is the *"diameter of the screened pipe"*
3) **D_filter** is the *"diameter of the drilled hole"*.
4) **A_casing** is the *"area of the casing"* and it depends on where the static water level lies with respect to the top of the screened pipe. It automatically filled by a IF function.
5) **DEFF** is a checking value. If all parameters have been correctly inserted then it's values will be near the D_casing value.
6) **F** is the formation factor.
7) **Gradient** is the slope of the regression taken from the associated chart

NB All cells where your intervention is not necessary have been locked.


BH01/10: Rising Head Test 1
Time (secs)
0
100
200
300
400
500
600
700
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
-6.00
-7.00
Ln H

BH01/10 Test 2

TIME (S)	H=Drawdown (m)	Ln H	Ln H Not included
30	0.07	-2.66	
60	0.06	-2.90	
90	0.05	-3.00	
120	0.04	-3.22	
150	0.03		-3.51
180	0.03		-3.51
240	0.03		-3.69
300	0.02		-3.91
360	0.02		-4.20
420	0.01		-4.61
540	0.01		-5.30
660	0.01		-5.30
780	0.00		

Parameter	Value	Unit	Comment (see NOTES also)
Average stable water level of diver		cm water level	average w.l. above diver before slug taken
stat_wl	1.41	mbtc	water level taken before test
base_screen	10	mbtc	
top_screen	2.6	mbtc	
L	7.4	m	length of response zone
D_casing	0.05	m	diameter of casing
D_filter	0.15	m	diameter of drilled well
Porosity filter	0.3		porosity of gravel pack estimated
A_casing	1.9635E-03	m2	depends on water level
D_{EFF}	0.05		
F	11.5651		

Parameter	Regresion	Unit
Gradient	-0.0043	
T1	0	s
T2	100	s
Ln_H1	0.000	m
Ln_H2	-0.430	m
K_1	7.30E-07	m/s
K_2	0.06	m/d

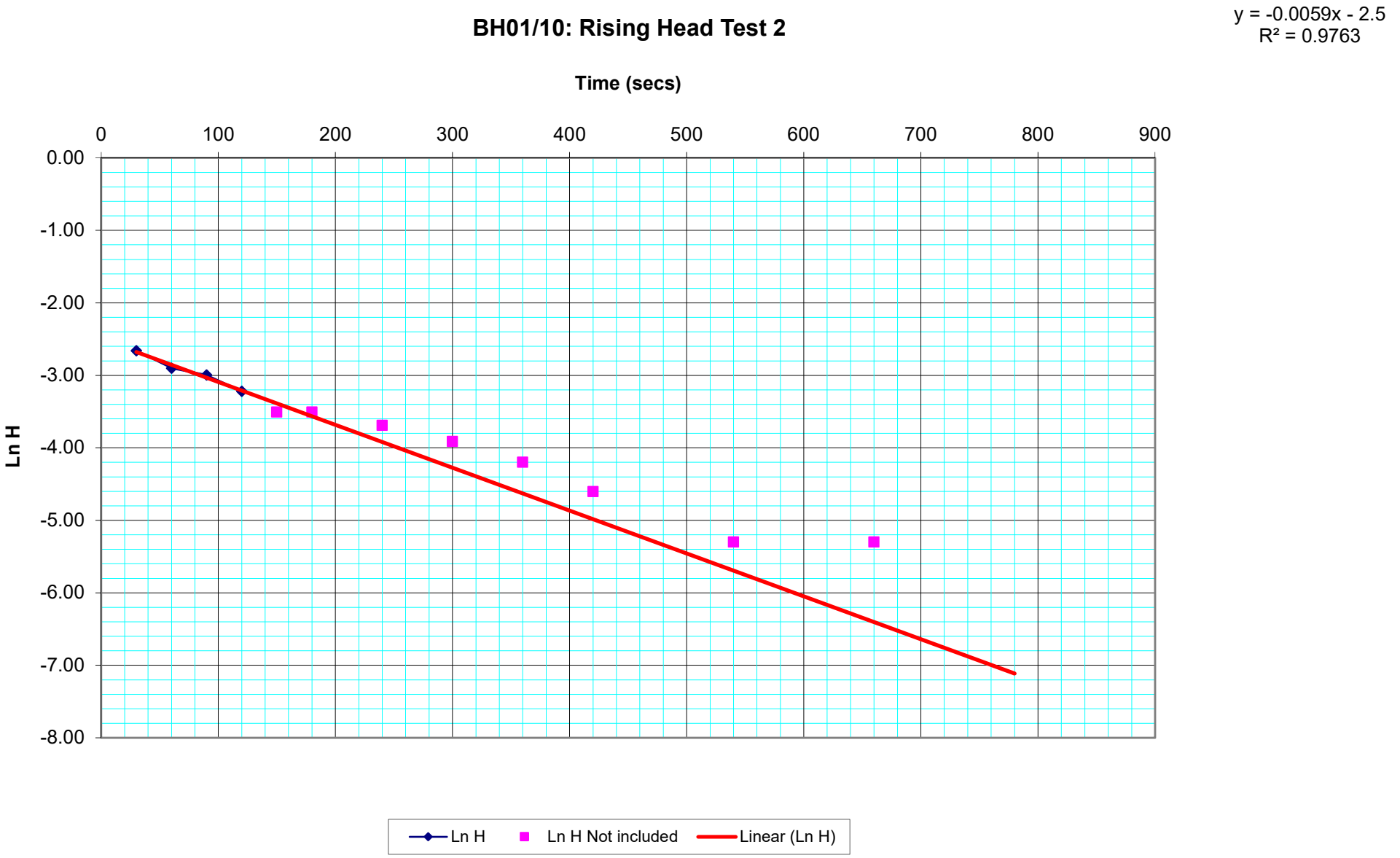
$$\frac{F}{D} = \frac{2.32\pi(L/D)}{\ln\left(\{1.1(L/D)\} + \sqrt{\{1 + 1.1(L/D)^2\}}\right)}$$

Figure 7 in BS5930 : 1999

NOTES

1) **L** is the *"length of the response zone"*. It is calculated by means of an IF function so you don't have to calculate it every time.
2) **D_casing** is the *"diameter of the screened pipe"*
3) **D_filter** is the *"diameter of the drilled hole"*.
4) **A_casing** is the *"area of the casing"* and it depends on where the static water level lies with respect to the top of the screened pipe. It automatically filled by a IF function.
5) **D_{EFF}** is a checking value. If all parameters have been correctly inserted then it's values will be near the D_casing value.
6) **F** is the formation factor.
7) **Gradient** is the slope of the regression taken from the associated chart

NB All cells where your intervention is not necessary have been locked.


BH01/10: Rising Head Test 2
y = -0.0059x - 2.5
R² = 0.9763
Time (secs)
0
100
200
300
400
500
600
700
800
900
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
-6.00
-7.00
-8.00
Ln H
Ln H
Ln H Not included
Linear (Ln H)

BH01/10 Test 2

TIME (S)	H=Drawdown (m)	Ln H	Ln H Not included
30	0.06	-2.81	
60	0.05		-3.00
90	0.04	-3.22	
120	0.04	-3.35	
180	0.03	-3.51	
240	0.02		-3.91
360	0.02	-4.20	
540	0.01		-4.61
840	0.01		-5.30

Parameter	Value	Unit	Comment (see NOTES also)
Average stable water level of diver		cm water level	average w.l. above diver before slug taken
stat_wl	1.41	mbtc	water level taken before test
base_screen	10	mbtc	
top_screen	2.6	mbtc	
L	7.4	m	length of response zone
D_casing	0.05	m	diameter of casing
D_filter	0.15	m	diameter of drilled well
Porosity filter	0.3		porosity of gravel pack estimated
A_casing	1.9635E-03	m2	depends on water level
D_{EFF}	0.05		
F	11.5651		

Parameter	Regresion	Unit
Gradient	-0.004	
T1	0	s
T2	100	s
Ln_H1	0.000	m
Ln_H2	-0.400	m
K_1	6.79E-07	m/s
K_2	0.06	m/d

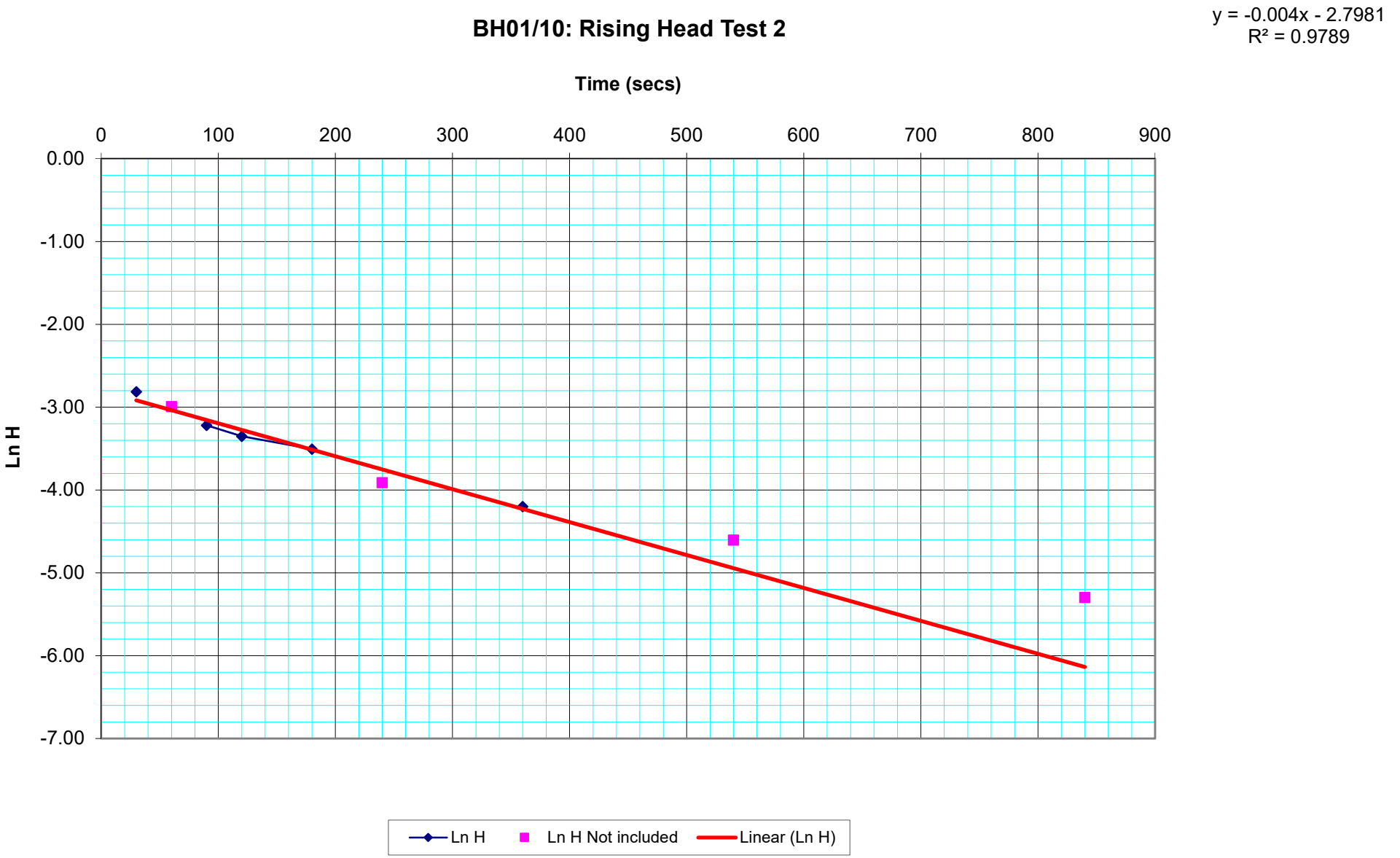
$$\frac{F}{D} = \frac{2.32\pi(L/D)}{\ln\left(\{1.1(L/D)\} + \sqrt{\{1 + 1.1(L/D)^2\}}\right)}$$

Figure 7 in BS5930 : 1999

NOTES

1) **L** is the *"length of the response zone"*. It is calculated by means of an IF function so you don't have to calculate it every time.
2) **D_casing** is the *"diameter of the screened pipe"*
3) **D_filter** is the *"diameter of the drilled hole"*.
4) **A_casing** is the *"area of the casing"* and it depends on where the static water level lies with respect to the top of the screened pipe. It automatically filled by a IF function.
5) **D_{EFF}** is a checking value. If all parameters have been correctly inserted then it's values will be near the D_casing value.
6) **F** is the formation factor.
7) **Gradient** is the slope of the regression taken from the associated chart

NB All cells where your intervention is not necessary have been locked.


BH01/10: Rising Head Test 2
y = -0.004x - 2.7981
R² = 0.9789
Time (secs)
0
100
200
300
400
500
600
700
800
900
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
-6.00
-7.00
Ln H
Ln H
Ln H Not included
Linear (Ln H)

Rising Head Test Data BH06
Logger in at 1415
Logger out at 1445

K m/s	######
K m/d	0.57

Test 1		K m/s
Bailer in Time	1417	3.88E-06
Test Start Time (Bailer Removed)	1418	K m/d
Starting DTW below casing (m)	3.04	0.33

Time (sec)	DTW below casing (m)	Drawdown (m)
60	3.13	0.09
120	3.1	0.06
180	3.09	0.05
210	3.07	0.03
270	3.07	0.03
300	3.06	0.02
450	3.06	0.02

Test End Ti	1426

Test 2		K m/s
Bailer in Ti	1426	7.10E-06
Test Start Time (Bailer Removed)	1428	K m/d
Starting DTW below casing (m)	3.06	0.61

Time (sec)	DTW below casing (m)	Drawdown (m)
15	3.4	0.34
30	3.3	0.24
60	3.22	0.16
90	3.175	0.115
120	3.14	0.08
150	3.12	0.06
180	3.1	0.04
210	3.095	0.035
240	3.085	0.025
300	3.08	0.02
360	3.07	0.01
420	3.065	0.005
540	3.06	0
660	3.05	-0.01

Test End Ti	1439

Test 3		K m/s
Bailer in Tir	1439	8.73E-06
Test Start Time (Bailer Removed)	1440	K m/d
Starting DTW below casing (m)	3.05	0.75

Time (sec)	DTW below casing (m)	Drawdown (m)
30	3.23	0.18
60	3.175	0.125
90	3.12	0.07
120	3.1	0.05
150	3.085	0.035
180	3.07	0.02
210	3.065	0.015
240	3.06	0.01
270	3.055	0.005
300	3.05	0

Test End Ti	1445

BH01/10 Test 1

TIME (S)	H=Drawdown (m)	Ln H	Ln H Not included
60	0.09	-2.41	
120	0.06	-2.81	
180	0.05		-3.00
210	0.03	-3.51	
270	0.03		-3.51
300	0.02	-3.91	
450	0.02		-3.91

Parameter	Value	Unit	Comment (see NOTES also)
Average stable water level of diver		cm water level	average w.l. above diver before slug taken
stat_wl	3.04	mbtc	water level taken before test
base_screen	10	mbtc	
top_screen	2.6	mbtc	
L	6.96	m	length of response zone
D_casing	0.05	m	diameter of casing
D_filter	0.15	m	diameter of drilled well
Porosity filter	0.3		porosity of gravel pack estimated
A_casing	6.6759E-03	m2	depends on water level
D_{EFF}	0.092195445		
F	11.0223		

Parameter	Regresion	Unit
Gradient	-0.0064	
T1	0	s
T2	100	s
Ln_H1	0.000	m
Ln_H2	-0.640	m
K_1	3.88E-06	m/s
K_2	0.33	m/d

$$\frac{F}{D} = \frac{2.32\pi(L/D)}{\ln\left(\{1.1(L/D)\} + \sqrt{\{1+1.1(L/D)^2\}}\right)}$$

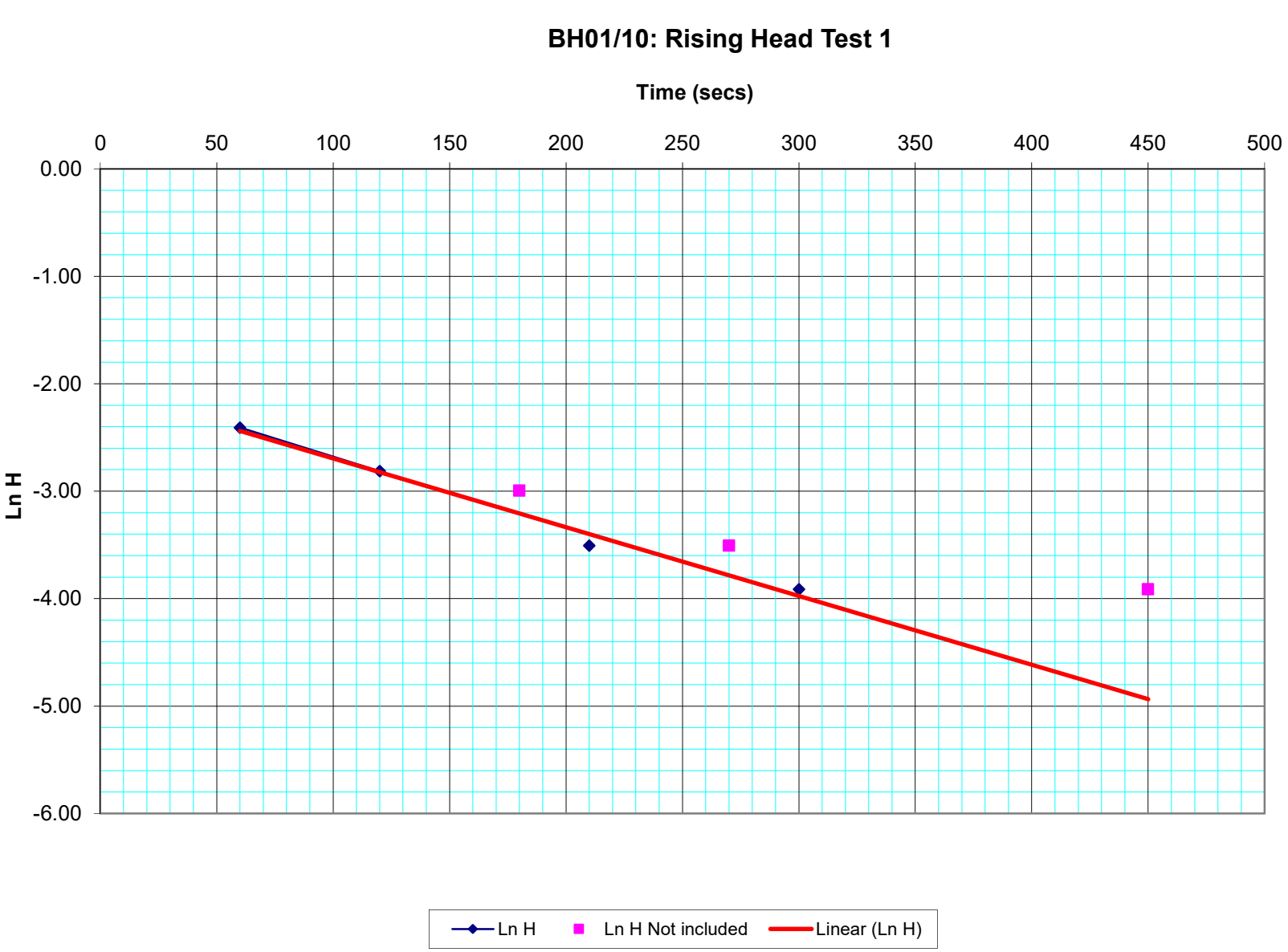
Figure 7 in BS5930 :1999

NOTES

1) **L** is the *"length of the response zone"*. It is calculated by means of an IF function so you don't have to calculate it every time.
2) **D_casing** is the *"diameter of the screened pipe"*
3) **D_filter** is the *"diameter of the drilled hole"*.
4) **A_casing** is the *"area of the casing"* and it depends on where the static water level lies with respect to the top of the screened pipe. It automatically filled by a IF function.
5) **DEFF** is a checking value. If all parameters have been correctly inserted then it's values will be near the D_casing value.
6) **F** is the formation factor.
7) **Gradient** is the slope of the regression taken from the associated chart

NB All cells where your intervention is not necessary have been locked.

y = -0.0064x - 2.056
R² = 0.9879



BH01/10 Test 2

TIME (S)	H=Drawdown (m)	Ln H	Ln H Not included
15	0.34		-1.08
30	0.24	-1.43	
60	0.16	-1.83	
90	0.12	-2.16	
120	0.08	-2.53	
150	0.06	-2.81	
180	0.04	-3.22	
210	0.04		-3.35
240	0.02		-3.69
300	0.02		-3.91
360	0.01		-4.61
420	0.00		-5.30
540	0.00		

Parameter	Value	Unit	Comment (see NOTES also)
Average stable water level of diver		cm water level	average w.l. above diver before slug taken
stat_wl	3.06	mbtc	water level taken before test
base_screen	10	mbtc	
top_screen	2.6	mbtc	
L	6.94	m	length of response zone
D_casing	0.05	m	diameter of casing
D_filter	0.15	m	diameter of drilled well
Porosity filter	0.3		porosity of gravel pack estimated
A_casing	6.6759E-03	m2	depends on water level
D_{EFF}	0.092195445		
F	10.9975		

Parameter	Regresion	Unit
Gradient	-0.0117	
T1	0	s
T2	100	s
Ln_H1	0.000	m
Ln_H2	-1.170	m
K_1	7.10E-06	m/s
K_2	0.61	m/d

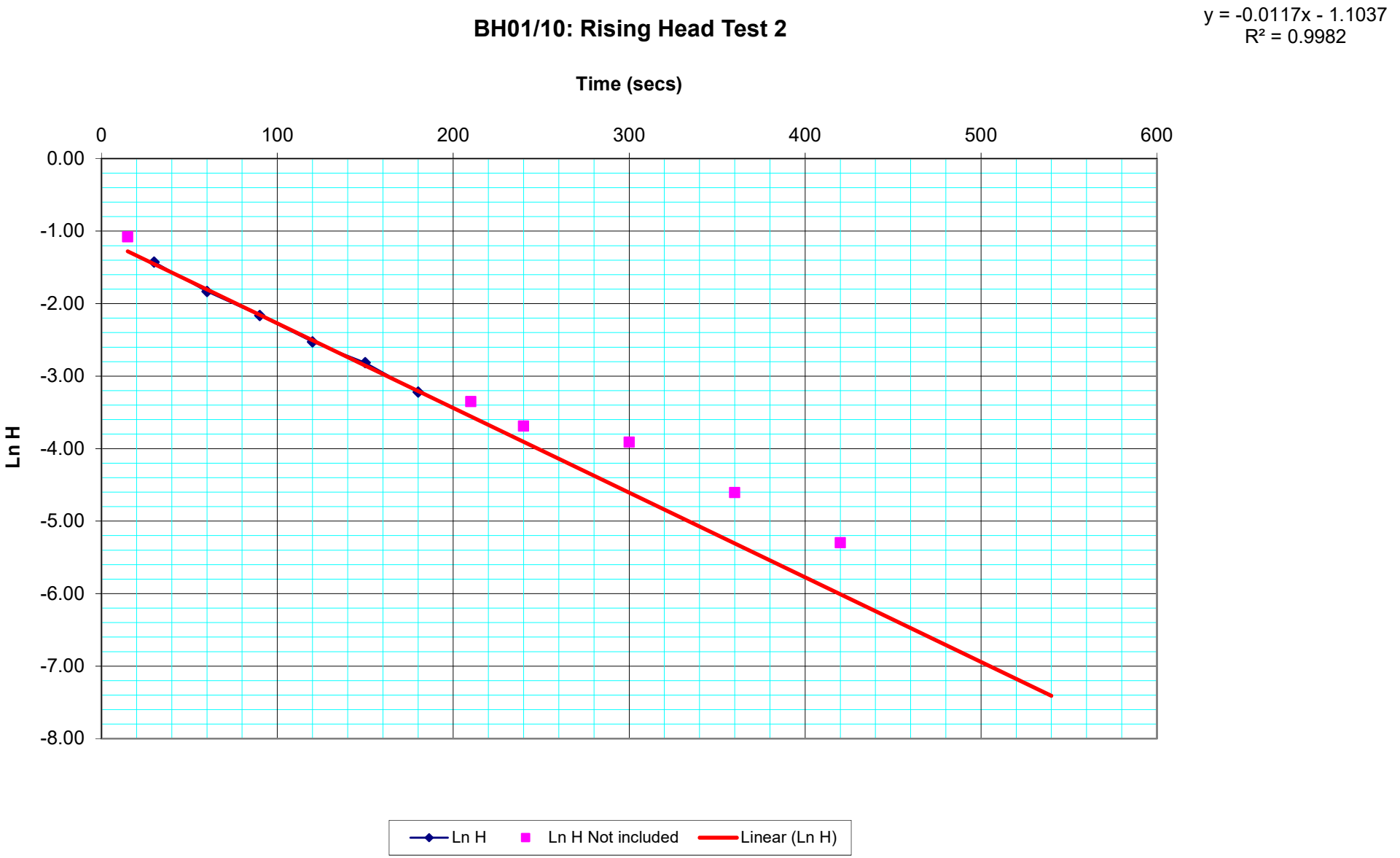
$$\frac{F}{D} = \frac{2.32\pi(L/D)}{\ln\left(\{1.1(L/D)\} + \sqrt{\{1+1.1(L/D)^2\}}\right)}$$

Figure 7 in BS5930 : 1999

NOTES

1) **L** is the *"length of the response zone"*. It is calculated by means of an IF function so you don't have to calculate it every time.
2) **D_casing** is the *"diameter of the screened pipe"*
3) **D_filter** is the *"diameter of the drilled hole"*.
4) **A_casing** is the *"area of the casing"* and it depends on where the static water level lies with respect to the top of the screened pipe. It automatically filled by a IF function.
5) **D_{EFF}** is a checking value. If all parameters have been correctly inserted then it's values will be near the D_casing value.
6) **F** is the formation factor.
7) **Gradient** is the slope of the regression taken from the associated chart

NB All cells where your intervention is not necessary have been locked.


BH01/10: Rising Head Test 2
y = -0.0117x - 1.1037
R² = 0.9982
Time (secs)
0
100
200
300
400
500
600
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
-6.00
-7.00
-8.00
Ln H
Ln H
Ln H Not included
Linear (Ln H)

BH01/10 Test 2

TIME (S)	H=Drawdown (m)	Ln H	Ln H Not included
30	0.18	-1.71	
60	0.13	-2.08	
90	0.07	-2.66	
120	0.05	-3.00	
150	0.04	-3.35	
180	0.02	-3.91	
210	0.02	-4.20	
240	0.01	-4.61	
270	0.01	-5.30	

Parameter	Value	Unit	Comment (see NOTES also)
Average stable water level of diver		cm water level	average w.l. above diver before slug taken
stat_wl	3.05	mbtc	water level taken before test
base_screen	10	mbtc	
top_screen	2.6	mbtc	
L	6.95	m	length of response zone
D_casing	0.05	m	diameter of casing
D_filter	0.15	m	diameter of drilled well
Porosity filter	0.3		porosity of gravel pack estimated
A_casing	6.6759E-03	m2	depends on water level
D_{EFF}	0.092195445		
F	11.0099		

Parameter	Regresion	Unit
Gradient	-0.0144	
T1	0	s
T2	100	s
Ln_H1	0.000	m
Ln_H2	-1.440	m
K_1	8.73E-06	m/s
K_2	0.75	m/d

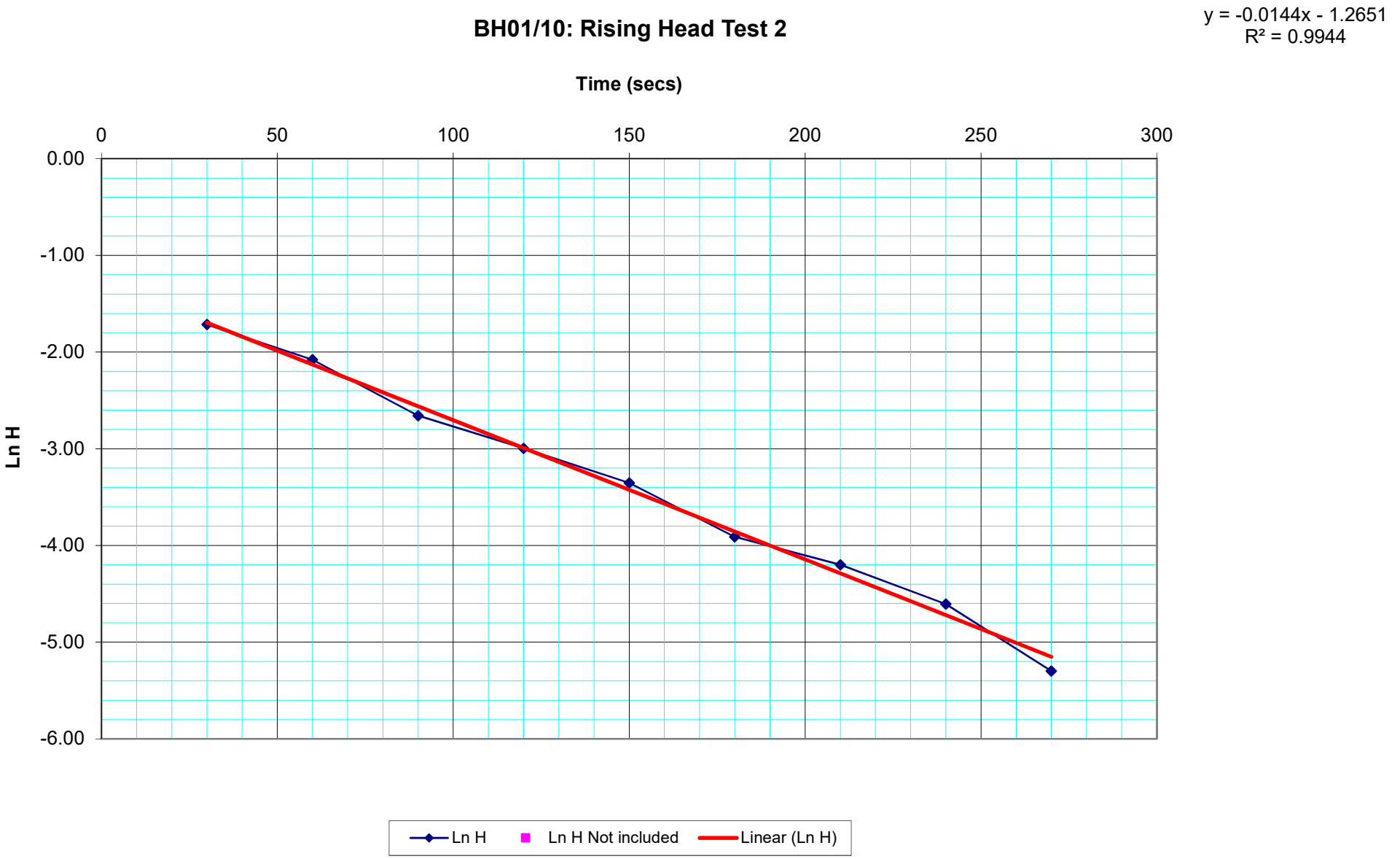
$$\frac{F}{D} = \frac{2.32\pi(L/D)}{\ln\left(\{1.1(L/D)\} + \sqrt{\{1 + 1.1(L/D)^2\}}\right)}$$

Figure 7 in BS5930 : 1999

NOTES

1) **L** is the *"length of the response zone"*. It is calculated by means of an IF function so you don't have to calculate it every time.
2) **D_casing** is the *"diameter of the screened pipe"*
3) **D_filter** is the *"diameter of the drilled hole"*.
4) **A_casing** is the *"area of the casing"* and it depends on where the static water level lies with respect to the top of the screened pipe. It automatically filled by a IF function.
5) **D_{EFF}** is a checking value. If all parameters have been correctly inserted then it's values will be near the D_casing value.
6) **F** is the formation factor.
7) **Gradient** is the slope of the regression taken from the associated chart

NB All cells where your intervention is not necessary have been locked.


BH01/10: Rising Head Test 2
y = -0.0144x - 1.2651
R² = 0.9944
Time (secs)
0
50
100
150
200
250
300
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
-6.00
Ln H
Ln H
Ln H Not included
Linear (Ln H)

APPENDIX C

Laboratory certificates

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	16-26771-1
Initial Date of Issue:	08-Nov-2016
Client	AA Environmental Ltd
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX
Contact(s):	Jack Taylor
Project	163408 Conlon - Trenchard Circle, Upper Heyford

Quotation No.:		**Date Received:**	03-Nov-2016
Order No.:		**Date Instructed:**	03-Nov-2016
No. of Samples:	23		
Turnaround (Wkdays):	3	**Results Due:**	07-Nov-2016
Date Approved:	08-Nov-2016		

Approved By:

Details: Keith Jones, Technical Manager

Results - Soil

Project: 163408 Conlon - Trenchard Circle, Upper Heyford

Client: AA Environmental Ltd		Chemtest Job No.:			16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771
Quotation No.:		Chemtest Sample ID.:			373987	373989	373990	373992	373994	373995	373996	373998	374000
		Client Sample ID.:			TP01	TP02	TP02	TP03	TP04	TP04	TP05	TP06	TP07
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.20	0.20	1.80	0.30	0.25	1.80	0.30	0.20	0.20
		Bottom Depth (m):											
		Date Sampled:			01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016
		Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	-
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	No Asbestos Detected
Moisture	N	2030	%	0.020	16	16	11	10	11	14	10	8.7	12
pH	U	2010		N/A	8.2	8.1	8.5	8.5	8.2	8.8	8.7	8.4	8.3
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	0.64	0.51	< 0.40	0.51	< 0.40	< 0.40	< 0.40	0.74	1.1
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	< 0.010	0.15	< 0.010	0.019	0.29	< 0.010	< 0.010	0.38	0.18
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50	1.0	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	U	2325	mg/kg	0.50	1.6	9.8	1.2	2.1	1.1	1.5	1.1	1.1	0.99
Arsenic	U	2450	mg/kg	1.0	21	27	15	24	25	18	25	30	28
Cadmium	U	2450	mg/kg	0.10	0.25	0.16	< 0.10	0.22	0.21	< 0.10	0.10	0.25	0.22
Chromium	U	2450	mg/kg	1.0	36	21	5.0	25	23	4.5	13	25	26
Copper	U	2450	mg/kg	0.50	7.2	6.2	2.3	8.0	7.7	1.3	5.2	8.8	9.0
Mercury	U	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.19	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	U	2450	mg/kg	0.50	22	16	6.1	17	17	4.3	12	20	19
Lead	U	2450	mg/kg	0.50	26	60	3.4	23	24	2.3	14	18	20
Selenium	U	2450	mg/kg	0.20	0.68	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	63	44	7.5	47	42	12	30	56	60
Zinc	U	2450	mg/kg	0.50	41	30	5.0	38	54	8.4	19	45	38
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	U	2625	%	0.20	1.1	0.94	0.61	1.9	3.7	5.1	1.4	2.4	1.5
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 163408 Conlon - Trenchard Circle, Upper Heyford

Client: AA Environmental Ltd					**Chemtest Job No.:**	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771
Quotation No.:					**Chemtest Sample ID.:**	373987	373989	373990	373992	373994	373995	373996	373998	374000
					Client Sample ID.:	TP01	TP02	TP02	TP03	TP04	TP04	TP05	TP06	TP07
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.20	0.20	1.80	0.30	0.25	1.80	0.30	0.20	0.20
					Bottom Depth (m):									
					Date Sampled:	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016
					Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	2920	mg/kg	0.30		< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 163408 Conlon - Trenchard Circle, Upper Heyford

Client: AA Environmental Ltd					**Chemtest Job No.:**	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771
Quotation No.:					**Chemtest Sample ID.:**	374001	374002	374003	374004	374005	374006	374007	374008	374009
					Client Sample ID.:	TP07	TP08	TP09	TP10	TP11	TP12	TP13	TP14	TP15
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	1.40	2.00	1.10	0.60	1.80	1.00	1.00	1.00	1.00
					Bottom Depth (m):									
					Date Sampled:	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016
					Asbestos Lab:	COVENTRY								
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
ACM Type	U	2192		N/A	-									
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected									
Moisture	N	2030	%	0.020	8.5	8.4	15	11	11	12	14	11	12	
pH	U	2010		N/A	8.7									
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40									
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	< 0.010									
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50									
Sulphide (Easily Liberatable)	U	2325	mg/kg	0.50	0.96									
Arsenic	U	2450	mg/kg	1.0	14									
Cadmium	U	2450	mg/kg	0.10	< 0.10									
Chromium	U	2450	mg/kg	1.0	3.3									
Copper	U	2450	mg/kg	0.50	1.2									
Mercury	U	2450	mg/kg	0.10	< 0.10									
Nickel	U	2450	mg/kg	0.50	4.7									
Lead	U	2450	mg/kg	0.50	1.9									
Selenium	U	2450	mg/kg	0.20	< 0.20									
Vanadium	U	2450	mg/kg	5.0	6.6									
Zinc	U	2450	mg/kg	0.50	3.3									
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50									
Total Organic Carbon	U	2625	%	0.20	5.0									
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	17	75	< 1.0	13	4.3	< 1.0	< 1.0	
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	98	570	< 1.0	68	2.4	< 1.0	< 1.0	
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	530	2400	< 1.0	320	34	< 1.0	< 1.0	
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	480	2500	< 1.0	260	35	< 1.0	< 1.0	
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	77	110	< 1.0	69	49	< 1.0	< 1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	1200	5600	< 5.0	730	120	< 5.0	< 5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	12	180	< 1.0	13	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	140	1300	< 1.0	89	3.9	< 1.0	< 1.0	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	120	760	< 1.0	82	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	< 1.0	< 1.0	34	97	< 1.0	34	4.5	< 1.0	< 1.0	

Chemtest
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Results - Soil

Project: 163408 Conlon - Trenchard Circle, Upper Heyford

Client: AA Environmental Ltd			**Chemtest Job No.:**		16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771
Quotation No.:			**Chemtest Sample ID.:**		374001	374002	374003	374004	374005	374006	374007	374008	374009
			Client Sample ID.:		TP07	TP08	TP09	TP10	TP11	TP12	TP13	TP14	TP15
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		1.40	2.00	1.10	0.60	1.80	1.00	1.00	1.00	1.00
			Bottom Depth (m):										
			Date Sampled:		01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016
			Asbestos Lab:		COVENTRY								
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	310	2300	< 5.0	220	8.4	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10	< 10	< 10	1500	7900	< 10	950	130	< 10	< 10
Naphthalene	U	2700	mg/kg	0.10	< 0.10								
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10								
Acenaphthene	U	2700	mg/kg	0.10	< 0.10								
Fluorene	U	2700	mg/kg	0.10	< 0.10								
Phenanthrene	U	2700	mg/kg	0.10	< 0.10								
Anthracene	U	2700	mg/kg	0.10	< 0.10								
Fluoranthene	U	2700	mg/kg	0.10	< 0.10								
Pyrene	U	2700	mg/kg	0.10	< 0.10								
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10								
Chrysene	U	2700	mg/kg	0.10	< 0.10								
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10								
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10								
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10								
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10								
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10								
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10								
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0								
Total Phenols	U	2920	mg/kg	0.30	< 0.30								

Results - Soil

Project: 163408 Conlon - Trenchard Circle, Upper Heyford

Client: AA Environmental Ltd			Chemtest Job No.:		16-26771	16-26771	16-26771	16-26771
Quotation No.:			Chemtest Sample ID.:		374010	374011	374012	374013
			Client Sample ID.:		TP16	TP17	TP18	TP18
			Sample Type:		SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		1.80	1.50	0	0.90
			Bottom Depth (m):				0.10	
			Date Sampled:		01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016
			Asbestos Lab:					
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
ACM Type	U	2192		N/A				
Asbestos Identification	U	2192	%	0.001				
Moisture	N	2030	%	0.020	10	9.8	9.4	9.7
pH	U	2010		N/A				
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40				
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010				
Cyanide (Total)	U	2300	mg/kg	0.50				
Sulphide (Easily Liberatable)	U	2325	mg/kg	0.50				
Arsenic	U	2450	mg/kg	1.0				
Cadmium	U	2450	mg/kg	0.10				
Chromium	U	2450	mg/kg	1.0				
Copper	U	2450	mg/kg	0.50				
Mercury	U	2450	mg/kg	0.10				
Nickel	U	2450	mg/kg	0.50				
Lead	U	2450	mg/kg	0.50				
Selenium	U	2450	mg/kg	0.20				
Vanadium	U	2450	mg/kg	5.0				
Zinc	U	2450	mg/kg	0.50				
Chromium (Hexavalent)	N	2490	mg/kg	0.50				
Total Organic Carbon	U	2625	%	0.20				
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	390	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	2100	35
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	8600	98
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	47000	360
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	34000	260
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	14000	110
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	110000	870
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	77	4.2
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	2100	27
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	15000	120
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	11000	63
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	< 1.0	< 1.0	3700	42

Results - Soil

Project: 163408 Conlon - Trenchard Circle, Upper Heyford

Client: AA Environmental Ltd			**Chemtest Job No.:**		16-26771	16-26771	16-26771	16-26771
Quotation No.:			**Chemtest Sample ID.:**		374010	374011	374012	374013
			Client Sample ID.:		TP16	TP17	TP18	TP18
			Sample Type:		SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		1.80	1.50	0	0.90
			Bottom Depth (m):				0.10	
			Date Sampled:		01-Nov-2016	01-Nov-2016	01-Nov-2016	01-Nov-2016
			Asbestos Lab:					
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	31000	250
Total Petroleum Hydrocarbons	N	2680	mg/kg	10	< 10	< 10	140000	1100
Naphthalene	U	2700	mg/kg	0.10				
Acenaphthylene	U	2700	mg/kg	0.10				
Acenaphthene	U	2700	mg/kg	0.10				
Fluorene	U	2700	mg/kg	0.10				
Phenanthrene	U	2700	mg/kg	0.10				
Anthracene	U	2700	mg/kg	0.10				
Fluoranthene	U	2700	mg/kg	0.10				
Pyrene	U	2700	mg/kg	0.10				
Benzo[a]anthracene	U	2700	mg/kg	0.10				
Chrysene	U	2700	mg/kg	0.10				
Benzo[b]fluoranthene	U	2700	mg/kg	0.10				
Benzo[k]fluoranthene	U	2700	mg/kg	0.10				
Benzo[a]pyrene	U	2700	mg/kg	0.10				
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10				
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10				
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10				
Total Of 16 PAH's	U	2700	mg/kg	2.0				
Total Phenols	U	2920	mg/kg	0.30				

Results - Water

Project: 163408 Conlon - Trenchard Circle, Upper Heyford

Client: AA Environmental Ltd			**Chemtest Job No.:**		16-26771
Quotation No.:			**Chemtest Sample ID.:**		373991
			Client Sample ID.:		TP02
			Sample Type:		WATER
			Top Depth (m):		2.00
			Date Sampled:		01-Nov-2016
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
pH	U	1010		N/A	8.2
Sulphate	U	1220	mg/l	1.0	42
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Magnesium	U	1415	mg/l	0.50	48
Arsenic (Dissolved)	U	1450	µg/l	1.0	1.3
Boron (Dissolved)	U	1450	µg/l	20	49
Cadmium (Dissolved)	U	1450	µg/l	0.080	< 0.080
Copper (Dissolved)	U	1450	µg/l	1.0	< 1.0
Mercury (Dissolved)	U	1450	µg/l	0.50	< 0.50
Nickel (Dissolved)	U	1450	µg/l	1.0	1.9
Lead (Dissolved)	U	1450	µg/l	1.0	< 1.0
Selenium (Dissolved)	U	1450	µg/l	1.0	< 1.0
Vanadium (Dissolved)	U	1450	µg/l	1.0	< 1.0
Zinc (Dissolved)	U	1450	µg/l	1.0	1.1
Chromium (Total)	U	1450	µg/l	1.0	1.4
Chromium (Hexavalent)	U	1490	µg/l	20	< 20
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	1200
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	9700
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	49000
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	59000
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	3200
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	120000
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	190
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	1300
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	15000
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	11000
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	860
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	73
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	28000
Total Petroleum Hydrocarbons	N	1675	µg/l	10	150000
Naphthalene	U	1700	µg/l	0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10

Results - Water

Project: 163408 Conlon - Trenchard Circle, Upper Heyford

Client: AA Environmental Ltd			**Chemtest Job No.:**		16-26771
Quotation No.:			**Chemtest Sample ID.:**		373991
			Client Sample ID.:		TP02
			Sample Type:		WATER
			Top Depth (m):		2.00
			Date Sampled:		01-Nov-2016
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Phenanthrene	U	1700	µg/l	0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10
Chrysene	U	1700	µg/l	0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10
Total Of 16 PAH's	U	1700	µg/l	2.0	< 2.0
Benzene	U	1760	µg/l	1.0	< 1.0
Toluene	U	1760	µg/l	1.0	< 1.0
Ethylbenzene	U	1760	µg/l	1.0	< 1.0
m & p-Xylene	U	1760	µg/l	1.0	< 1.0
o-Xylene	U	1760	µg/l	1.0	< 1.0
Total Phenols	U	1920	mg/l	0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1415	Cations in Waters by ICP-MS	Sodium; Potassium; Calcium; Magnesium	Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GC FID detection
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N–dimethyl-p-phenylenediamine.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.

Test Methods

SOP	Title	Parameters included	Method summary
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

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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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	16-26968-1
Initial Date of Issue:	08-Nov-2016
Client	AA Environmental Ltd
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX
Contact(s):	Carrie Lorton Ed Brown Jack Taylor Mark Anderson Matthew Lawman Penny Hearn Richard Heath Sam Muir
Project	163408 Conlon - Trenchard Circle, Upper Heyford

Quotation No.:		**Date Received:**	04-Nov-2016
Order No.:		**Date Instructed:**	04-Nov-2016
No. of Samples:	3		
Turnaround (Wkdays):	3	**Results Due:**	08-Nov-2016
Date Approved:	08-Nov-2016		
Approved By:			

[redacted]

Details: Keith Jones, Technical Manager

Results - Soil

Project: 163408 Conlon - Trenchard Circle, Upper Heyford

Client: AA Environmental Ltd			Chemtest Job No.:		16-26968	16-26968
Quotation No.:			Chemtest Sample ID.:		374543	374547
			Client Sample ID.:		TP29	TP37
			Sample Type:		SOIL	SOIL
			Top Depth (m):		1.30	0.60
			Date Sampled:		03-Nov-2016	03-Nov-2016
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Moisture	N	2030	%	0.020	9.3	7.4
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	81	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	920	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	4800	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	3800	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	470	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	10000	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	71	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	430	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	940	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	360	< 1.0
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	30	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	1800	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10	12000	< 10

Results - Water

Project: 163408 Conlon - Trenchard Circle, Upper Heyford

Client: AA Environmental Ltd			**Chemtest Job No.:**		16-26968
Quotation No.:			**Chemtest Sample ID.:**		374536
			Client Sample ID.:		TP21
			Sample Type:		WATER
			Top Depth (m):		0.80
			Date Sampled:		03-Nov-2016
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	410000
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	1200000
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	3600000
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	2200000
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	1400000
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	8800000
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	150000
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	400000
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	1500000
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	1500000
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	190000
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	3200
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	3700000
Total Petroleum Hydrocarbons	N	1675	µg/l	10	13000000

Test Methods

SOP	Title	Parameters included	Method summary
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection

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If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Consolidated Soil Results - Residential with Homegrown Produce

Site: Trenchard Circle, Upper Heyford
Project Reference: 163408
Client: Conlon
Strata: ALL Strata
Notes:

KEY
Exceedance of SGV
Below Limit of Detection

Determinant	Units	LOD	SGV	Max	Number	No. Exceedances	Sample Location	TP01	TP02	TP02	TP03	TP04	TP04	TP05	TP06	TP07	TP07	TP08	TP09
							Sample Ref	373987	373989	373990	373992	373994	373995	373996	373998	374000	374001	374002	374003
							Depth (top)	0.20	0.20	1.80	0.30	0.25	1.80	0.30	0.20	0.20	1.40	2.00	1.10
							Depth (bottom)												
							Lab Report	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771
							Sample Date	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16
							Originator	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe
							Strata												
pH	pH unit	0.1	6 to 9	8.8	10			8.2	8.1	8.5	8.5	8.2	8.8	8.7	8.4	8.3	8.7		
Boron (Hot Water Soluble)	mg/kg	0.4	290	1.1	10			0.64	0.51	*0.4*	0.51	*0.4*	*0.4*	*0.4*	0.74	1.1	*0.4*		
Cyanide (Total)	mg/kg	0.5	20	1.6	10			*0.5*	*0.5*	1	1.6	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*		
Sulphide (Easily Liberatable)	mg/kg	0.5		9.8	10			1.6	9.8	1.2	2.1	1.1	1.5	1.1	1.1	0.99	0.96		
Arsenic	mg/kg	1	37	30	10			21	27	15	24	25	18	25	30	28	14		
Cadmium	mg/kg	0.1	11	0.25	10			0.25	0.16	*0.1*	0.22	0.21	*0.1*	*0.1*	0.25	0.22	*0.1*		
Chromium	mg/kg	1	910	36	10			36	21	5	25	23	4.5	13	25	26	3.3		
Copper	mg/kg	0.5	2400	9	10			7.2	6.2	2.3	8	7.7	1.3	5.2	8.8	9	1.2		
Mercury	mg/kg	0.1	1.2	0.19	10			*0.1*	*0.1*	*0.1*	*0.1*	0.19	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Nickel	mg/kg	0.5	180	22	10			22	16	6.1	17	17	4.3	12	20	19	4.7		
Lead	mg/kg	0.5	200	60	10			26	60	3.4	23	24	2.3	14	18	20	1.9		
Selenium	mg/kg	0.2	250	0.68	10			0.68	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*		
Vanadium	mg/kg	5	410	63	10			63	44	7.5	47	42	12	30	56	60	6.6		
Zinc	mg/kg	0.5	3700	54	10			41	30	5	38	54	8.4	19	45	38	3.3		
Chromium (Hexavalent)	mg/kg	0.5	6	0.5	10			*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*		
Total Organic Carbon	%	0.2	3	5.1	10	3		1.1	0.94	0.61	1.9	3.7	5.1	1.4	2.4	1.5	5		
Aliphatic TPH >C5-C6	mg/kg	0.1	42	1	24			1	1	1	1	1	1	1	1	1	1	1	1
Aliphatic TPH >C6-C8	mg/kg	0.1	100	390	24	1		1	1	1	1	1	1	1	1	1	1	1	1
Aliphatic TPH >C8-C10	mg/kg	0.1	27	2100	24	4		1	1	1	1	1	1	1	1	1	1	1	17
Aliphatic TPH >C10-C12	mg/kg	1	130	8600	24	3		*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	98
Aliphatic TPH >C12-C16	mg/kg	1	1100	47000	24	3		*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	530
Aliphatic TPH >C16-C21	mg/kg	1	65000	34000	24			*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	480
Aliphatic TPH >C21-C35	mg/kg	1	65000	14000	24			*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	77
Aliphatic TPH >C35-C44	mg/kg	1	65000	1	24			*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
Total Aliphatic Hydrocarbons	mg/kg	5		110000	24			*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	1200
Aromatic TPH >C5-C7	mg/kg	0.1	70	1	24			1	1	1	1	1	1	1	1	1	1	1	1
Aromatic TPH >C7-C8	mg/kg	0.1	130	1	24			1	1	1	1	1	1	1	1	1	1	1	1
Aromatic TPH >C8-C10	mg/kg	0.1	34	77	24	2		1	1	1	1	1	1	1	1	1	1	1	1
Aromatic TPH >C10-C12	mg/kg	1	74	2100	24	3		*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	12
Aromatic TPH >C12-C16	mg/kg	1	140	15000	24	3		*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	140
Aromatic TPH >C16-C21	mg/kg	1	260	11000	24	3		*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	120
Aromatic TPH >C21-C35	mg/kg	1	1100	3700	24	1		*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	34
Aromatic TPH >C35-C44	mg/kg	1	1100	1	24			*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
Total Aromatic Hydrocarbons	mg/kg	5		31000	24			*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	310
TPH C6-C10	mg/kg	1																	
TPH C10-C21	mg/kg	1																	
TPH C21-C40	mg/kg	1																	
Total Petroleum Hydrocarbons	mg/kg	10		140000	24			*10*	*10*	*10*	*10*	*10*	*10*	*10*	*10*	*10*	*10*	*10*	1500
Naphthalene	mg/kg	0.1	2.3	0.1	10			*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		

Consolidated Soil Results - Residential with Homegrown Produce

Site: Trenchard Circle, Upper Heyford
Project Reference: 163408
Client: Conlon
Strata: ALL Strata
Notes:

KEY
Exceedance of SGV
Below Limit of Detection

Determinant	Units	LOD	SGV	Max	Number	No. Exceedances	TP01	TP02	TP02	TP03	TP04	TP04	TP05	TP06	TP07	TP07	TP08	TP09
Sample Location							TP01	TP02	TP02	TP03	TP04	TP04	TP05	TP06	TP07	TP07	TP08	TP09
Sample Ref							373987	373989	373990	373992	373994	373995	373996	373998	374000	374001	374002	374003
Depth (top)							0.20	0.20	1.80	0.30	0.25	1.80	0.30	0.20	0.20	1.40	2.00	1.10
Depth (bottom)																		
Lab Report							16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771
Sample Date							1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16
Originator							AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe
Strata																		
Acenaphthylene	mg/kg	0.1	170	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Acenaphthene	mg/kg	0.1	210	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Fluorene	mg/kg	0.1	170	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Phenanthrene	mg/kg	0.1	95	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Anthracene	mg/kg	0.1	2400	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Fluoranthene	mg/kg	0.1	280	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Pyrene	mg/kg	0.1	620	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Benzo[a]anthracene	mg/kg	0.1	7.2	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Chrysene	mg/kg	0.1	15	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Benzo[b]fluoranthene	mg/kg	0.1	2.6	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Benzo[k]fluoranthene	mg/kg	0.1	77	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Benzo[a]pyrene	mg/kg	0.1	2.2	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Indeno(1,2,3-c,d)Pyrene	mg/kg	0.1	27	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Dibenz(a,h)Anthracene	mg/kg	0.1	0.24	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Benzo[g,h,i]perylene	mg/kg	0.1	320	0.1	10		*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*		
Total Of 16 PAH's	mg/kg	2		2	10		*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*		
Total Phenols	mg/kg	0.3	280	0.3	10		*0.3*	*0.3*	*0.3*	*0.3*	*0.3*	*0.3*	*0.3*	*0.3*	*0.3*	*0.3*		
Asbestos	Type	If present	Detected				NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	N/T	N/T
Asbestos % (if present)	%	0.001																
Benzene	mg/kg	0.1	0.087															
Toluene	mg/kg	0.1	130															
Ethylbenzene	mg/kg	0.1	47															
M-Xylene	mg/kg	0.1	59															
P-Xylene	mg/kg	0.1	56															
O-Xylene	mg/kg	0.1	60															

Consolidated Soil Results - Residential with Homegrown Produce

Site: Trenchard Circle, Upper Heyford
Project Reference: 163408
Client: Conlon
Strata: ALL Strata
Notes:

KEY
Exceedance of SGV
Below Limit of Detection

Determinant	Units	LOD	SGV	Max	Number	No. Exceedances	TP10	TP11	TP12	TP13	TP14	TP15	TP16	TP17	TP18	TP18	TP29	TP37
Sample Location							TP10	TP11	TP12	TP13	TP14	TP15	TP16	TP17	TP18	TP18	TP29	TP37
Sample Ref							374004	374005	374006	374007	374008	374009	374010	374011	374012	374013	374543	374547
Depth (top)							0.60	1.80	1.00	1.00	1.00	1.00	1.80	1.50	0	0.90	1.30	0.60
Depth (bottom)															0.10			
Lab Report							16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26968	16-26968
Sample Date							1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	3/11/16	3/11/16
Originator							AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe
Strata																		
pH	pH unit	0.1	6 to 9	8.8	10													
Boron (Hot Water Soluble)	mg/kg	0.4	290	1.1	10													
Cyanide (Total)	mg/kg	0.5	20	1.6	10													
Sulphide (Easily Liberatable)	mg/kg	0.5		9.8	10													
Arsenic	mg/kg	1	37	30	10													
Cadmium	mg/kg	0.1	11	0.25	10													
Chromium	mg/kg	1	910	36	10													
Copper	mg/kg	0.5	2400	9	10													
Mercury	mg/kg	0.1	1.2	0.19	10													
Nickel	mg/kg	0.5	180	22	10													
Lead	mg/kg	0.5	200	60	10													
Selenium	mg/kg	0.2	250	0.68	10													
Vanadium	mg/kg	5	410	63	10													
Zinc	mg/kg	0.5	3700	54	10													
Chromium (Hexavalent)	mg/kg	0.5	6	0.5	10													
Total Organic Carbon	%	0.2	3	5.1	10	3												
Aliphatic TPH >C5-C6	mg/kg	0.1	42	1	24		1	1	1	1	1	1	1	1	1	1	1	1
Aliphatic TPH >C6-C8	mg/kg	0.1	100	390	24	1	1	1	1	1	1	1	1	1	**390**	1	1	1
Aliphatic TPH >C8-C10	mg/kg	0.1	27	2100	24	4	**75**	1	13	4.3	1	1	1	1	**2100**	**35**	**81**	1
Aliphatic TPH >C10-C12	mg/kg	1	130	8600	24	3	**570**	*1*	68	2.4	*1*	*1*	*1*	*1*	**8600**	98	**920**	*1*
Aliphatic TPH >C12-C16	mg/kg	1	1100	47000	24	3	**2400**	*1*	320	34	*1*	*1*	*1*	*1*	**47000**	360	**4800**	*1*
Aliphatic TPH >C16-C21	mg/kg	1	65000	34000	24		2500	*1*	260	35	*1*	*1*	*1*	*1*	34000	260	3800	*1*
Aliphatic TPH >C21-C35	mg/kg	1	65000	14000	24		110	*1*	69	49	*1*	*1*	*1*	*1*	14000	110	470	*1*
Aliphatic TPH >C35-C44	mg/kg	1	65000	1	24		*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
Total Aliphatic Hydrocarbons	mg/kg	5		110000	24		5600	*5*	730	120	*5*	*5*	*5*	*5*	110000	870	10000	*5*
Aromatic TPH >C5-C7	mg/kg	0.1	70	1	24		1	1	1	1	1	1	1	1	1	1	1	1
Aromatic TPH >C7-C8	mg/kg	0.1	130	1	24		1	1	1	1	1	1	1	1	1	1	1	1
Aromatic TPH >C8-C10	mg/kg	0.1	34	77	24	2	1.1	1	1	1	1	1	1	1	77	4.2	71	1
Aromatic TPH >C10-C12	mg/kg	1	74	2100	24	3	180	*1*	13	*1*	*1*	*1*	*1*	*1*	2100	27	430	*1*
Aromatic TPH >C12-C16	mg/kg	1	140	15000	24	3	1300	*1*	89	3.9	*1*	*1*	*1*	*1*	15000	120	940	*1*
Aromatic TPH >C16-C21	mg/kg	1	260	11000	24	3	760	*1*	82	*1*	*1*	*1*	*1*	*1*	11000	63	360	*1*
Aromatic TPH >C21-C35	mg/kg	1	1100	3700	24	1	97	*1*	34	4.5	*1*	*1*	*1*	*1*	3700	42	30	*1*
Aromatic TPH >C35-C44	mg/kg	1	1100	1	24		*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
Total Aromatic Hydrocarbons	mg/kg	5		31000	24		2300	*5*	220	8.4	*5*	*5*	*5*	*5*	31000	250	1800	*5*
TPH C6-C10	mg/kg	1																
TPH C10-C21	mg/kg	1																
TPH C21-C40	mg/kg	1																
Total Petroleum Hydrocarbons	mg/kg	10		140000	24		7900	*10*	950	130	*10*	*10*	*10*	*10*	140000	1100	12000	*10*
Naphthalene	mg/kg	0.1	2.3	0.1	10													

Consolidated Soil Results - Residential with Homegrown Produce

Site: Trenchard Circle, Upper Heyford
Project Reference: 163408
Client: Conlon
Strata: ALL Strata
Notes:

KEY
Exceedance of SGV
Below Limit of Detection

Determinant	Units	LOD	SGV	Max	Number	No. Exceedances	TP10	TP11	TP12	TP13	TP14	TP15	TP16	TP17	TP18	TP18	TP29	TP37
Sample Location																		
Sample Ref							374004	374005	374006	374007	374008	374009	374010	374011	374012	374013	374543	374547
Depth (top)							0.60	1.80	1.00	1.00	1.00	1.00	1.80	1.50	0	0.90	1.30	0.60
Depth (bottom)															0.10			
Lab Report							16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26771	16-26968	16-26968
Sample Date							1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	1/11/16	3/11/16	3/11/16
Originator							AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe	AAe
Strata																		
Acenaphthylene	mg/kg	0.1	170	0.1	10													
Acenaphthene	mg/kg	0.1	210	0.1	10													
Fluorene	mg/kg	0.1	170	0.1	10													
Phenanthrene	mg/kg	0.1	95	0.1	10													
Anthracene	mg/kg	0.1	2400	0.1	10													
Fluoranthene	mg/kg	0.1	280	0.1	10													
Pyrene	mg/kg	0.1	620	0.1	10													
Benzo[a]anthracene	mg/kg	0.1	7.2	0.1	10													
Chrysene	mg/kg	0.1	15	0.1	10													
Benzo[b]fluoranthene	mg/kg	0.1	2.6	0.1	10													
Benzo[k]fluoranthene	mg/kg	0.1	77	0.1	10													
Benzo[a]pyrene	mg/kg	0.1	2.2	0.1	10													
Indeno(1,2,3-c,d)Pyrene	mg/kg	0.1	27	0.1	10													
Dibenz(a,h)Anthracene	mg/kg	0.1	0.24	0.1	10													
Benzo[g,h,i]perylene	mg/kg	0.1	320	0.1	10													
Total Of 16 PAH's	mg/kg	2		2	10													
Total Phenols	mg/kg	0.3	280	0.3	10													
Asbestos	Type	If present	Detected				N/T	N/T	N/T	N/T	N/T	N/T	N/T	N/T	N/T	N/T	N/T	N/T
Asbestos % (if present)	%	0.001																
Benzene	mg/kg	0.1	0.087															
Toluene	mg/kg	0.1	130															
Ethylbenzene	mg/kg	0.1	47															
M-Xylene	mg/kg	0.1	59															
P-Xylene	mg/kg	0.1	56															
O-Xylene	mg/kg	0.1	60															

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	17-04338-1
Initial Date of Issue:	24-Feb-2017
Client	AA Environmental Ltd
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX
Contact(s):	Carrie Lorton Ed Brown Jack Taylor Mark Anderson Matthew Lawman Richard Heath Sam Muir
Project	173042 Agetur-Upper Heyford Remediation

Quotation No.:		**Date Received:**	22-Feb-2017
Order No.:		**Date Instructed:**	22-Feb-2017
No. of Samples:	2		
Turnaround (Wkdays):	3	**Results Due:**	24-Feb-2017
Date Approved:	24-Feb-2017		

Approved By:

[redacted]

Details: Glynn Harvey, Laboratory Manager

Chemtest
The right chemistry to deliver results

Results - Water

Project: 173042 Agetur-Upper Heyford Remediation

Client: AA Environmental Ltd			**Chemtest Job No.:**		17-04338	17-04338
Quotation No.:			**Chemtest Sample ID.:**		415559	415560
Order No.:			Client Sample Ref.:		NW	NE
			Client Sample ID.:		WS1	WS2
			Sample Type:		WATER	WATER
			Date Sampled:		20-Feb-2017	20-Feb-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
pH	U	1010		N/A	8.1	8.3
Electrical Conductivity	U	1020	µS/cm	1.0	830	530
Total Dissolved Solids	N		mg/l	1.0	500	320
Chloride	U	1220	mg/l	1.0	21	43
Ammoniacal Nitrogen	U	1220	mg/l	0.010	0.16	0.093
Nitrite	U	1220	mg/l	0.020	0.13	0.049
Nitrate	U	1220	mg/l	0.50	5.1	8.9
Sulphate	U	1220	mg/l	1.0	73	140
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	< 0.050	< 0.050
Potassium	U	1415	mg/l	0.50	2.6	5.6
Magnesium	U	1415	mg/l	0.50	2.3	2.8
Sodium	U	1415	mg/l	0.50	19	44
Total Hardness as CaCO3	U	1270	mg/l	15	270	440
Arsenic (Dissolved)	U	1450	µg/l	1.0	1.8	< 1.0
Boron (Dissolved)	U	1450	µg/l	20	690	660
Cadmium (Dissolved)	U	1450	µg/l	0.080	< 0.080	< 0.080
Copper (Dissolved)	U	1450	µg/l	1.0	1.5	< 1.0
Mercury (Dissolved)	U	1450	µg/l	0.50	< 0.50	< 0.50
Nickel (Dissolved)	U	1450	µg/l	1.0	1.3	1.6
Lead (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0
Selenium (Dissolved)	U	1450	µg/l	1.0	1.0	1.2
Vanadium (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0
Zinc (Dissolved)	U	1450	µg/l	1.0	6.4	10
Chromium (Total)	U	1450	µg/l	1.0	< 1.0	< 1.0
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	440	620
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	540	1300
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	240	120
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	1200	2100
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	160	190

Results - Water

Project: 173042 Agetur-Upper Heyford Remediation

Client: AA Environmental Ltd			**Chemtest Job No.:**		17-04338	17-04338
Quotation No.:			**Chemtest Sample ID.:**		415559	415560
Order No.:			Client Sample Ref.:		NW	NE
			Client Sample ID.:		WS1	WS2
			Sample Type:		WATER	WATER
			Date Sampled:		20-Feb-2017	20-Feb-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	360	1300
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	190	530
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	710	2000
Total Petroleum Hydrocarbons	N	1675	µg/l	10	1900	4100
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1700	µg/l	2.0	< 2.0	< 2.0
Benzene	U	1760	µg/l	1.0	< 1.0	< 1.0
Toluene	U	1760	µg/l	1.0	< 1.0	< 1.0
Ethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0
m & p-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0
o-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N–dimethyl-pphenylenediamine.
1415	Cations in Waters by ICP-MS	Sodium; Potassium; Calcium; Magnesium	Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GC FID detection
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	17-05108-1
Initial Date of Issue:	06-Mar-2017
Client	AA Environmental Ltd
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX
Contact(s):	Carrie Lorton Ed Brown Jack Taylor Mark Anderson Matthew Lawman Richard Heath Sam Muir
Project	173042 Agetur - Upper Heyford Remediation

Quotation No.:		**Date Received:**	02-Mar-2017
Order No.:		**Date Instructed:**	02-Mar-2017
No. of Samples:	6		
Turnaround (Wkdays):	3	**Results Due:**	06-Mar-2017
Date Approved:	06-Mar-2017		

Approved By:

[redacted]

Details: Martin Dyer, Laboratory Manager

Chemtest
The right chemistry to deliver results

Results - Water

Project: 173042 Agetur - Upper Heyford Remediation

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-05108	17-05108	17-05108	17-05108	17-05108	17-05108
Quotation No.:		**Chemtest Sample ID.:**			419201	419202	419203	419204	419205	419206
Order No.:		Client Sample Ref.:			R1	R1	R1	R1	R1	R1
		Client Sample ID.:			BH01	BH02	BH03	BH04	BH05	BH06
		Sample Type:			WATER	WATER	WATER	WATER	WATER	WATER
		Date Sampled:			28-Feb-2017	28-Feb-2017	28-Feb-2017	28-Feb-2017	28-Feb-2017	28-Feb-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
pH	U	1010		N/A	8.1	8.1	8.1	8.2	8.1	8.1
Electrical Conductivity	U	1020	µS/cm	1.0	470	470	530	510	820	540
Total Dissolved Solids	N		mg/l	1.0	280	280	320	310	500	320
Chloride	U	1220	mg/l	1.0	39	37	29	23	33	63
Ammoniacal Nitrogen	U	1220	mg/l	0.010	0.33	0.33	0.45	0.28	0.42	0.37
Nitrite	U	1220	mg/l	0.020	0.063	0.035	0.070	0.24	0.69	0.057
Nitrate	U	1220	mg/l	0.50	< 0.50	< 0.50	1.1	< 0.50	5.5	20
Sulphate	U	1220	mg/l	1.0	89	76	120	110	280	51
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Potassium	U	1415	mg/l	0.50	1.4	2.1	3.2	6.4	6.9	1.5
Magnesium	U	1415	mg/l	0.50	4.4	5.2	6.8	11	14	3.5
Sodium	U	1415	mg/l	0.50	28	26	26	27	64	44
Total Hardness as CaCO3	U	1270	mg/l	15	320	350	390	330	510	380
Arsenic (Dissolved)	U	1450	µg/l	1.0	3.5	1.3	< 1.0	1.0	1.3	< 1.0
Boron (Dissolved)	U	1450	µg/l	20	850	670	420	740	780	720
Cadmium (Dissolved)	U	1450	µg/l	0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080
Copper (Dissolved)	U	1450	µg/l	1.0	9.0	2.8	1.9	< 1.0	1.2	< 1.0
Mercury (Dissolved)	U	1450	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.55
Nickel (Dissolved)	U	1450	µg/l	1.0	38	12	7.9	6.4	9.5	5.0
Lead (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	< 1.0
Selenium (Dissolved)	U	1450	µg/l	1.0	1.9	1.1	2.4	11	12	1.6
Vanadium (Dissolved)	U	1450	µg/l	1.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (Dissolved)	U	1450	µg/l	1.0	7.7	4.1	6.4	4.5	11	1.9
Chromium (Total)	U	1450	µg/l	1.0	4.9	2.8	11	4.3	3.7	3.4
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Chemtest
The right chemistry to deliver results

Results - Water

Project: 173042 Agetur - Upper Heyford Remediation

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-05108	17-05108	17-05108	17-05108	17-05108	17-05108
Quotation No.:		**Chemtest Sample ID.:**			419201	419202	419203	419204	419205	419206
Order No.:		Client Sample Ref.:			R1	R1	R1	R1	R1	R1
		Client Sample ID.:			BH01	BH02	BH03	BH04	BH05	BH06
		Sample Type:			WATER	WATER	WATER	WATER	WATER	WATER
		Date Sampled:			28-Feb-2017	28-Feb-2017	28-Feb-2017	28-Feb-2017	28-Feb-2017	28-Feb-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1700	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N–dimethyl-pphenylenediamine.
1415	Cations in Waters by ICP-MS	Sodium; Potassium; Calcium; Magnesium	Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GC FID detection
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

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>	"greater than"

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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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
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A - Date of sampling not supplied
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All water samples will be retained for 14 days from the date of receipt
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If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	17-05981-1
Initial Date of Issue:	14-Mar-2017
Client	AA Environmental Ltd
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX
Contact(s):	Carrie Lorton Ed Brown Jack Taylor John McCusker John McCusker Mark Anderson Matthew Lawman Richard Heath Sam Muir Sam Muir
Project	173042 Upper Heyford

Quotation No.:		**Date Received:**	10-Mar-2017
Order No.:		**Date Instructed:**	10-Mar-2017
No. of Samples:	6		
Turnaround (Wkdays):	3	**Results Due:**	14-Mar-2017
Date Approved:	14-Mar-2017		

Approved By:

[redacted]

Details: Keith Jones, Technical Manager

Results - Water

Project: 173042 Upper Heyford

Client: AA Environmental Ltd			Chemtest Job No.:		17-05981	17-05981	17-05981	17-05981	17-05981	17-05981
Quotation No.:			Chemtest Sample ID.:		423333	423334	423335	423336	423337	423338
			Client Sample ID.:		BH01	BH02	BH03	BH04	BH05	BH06
			Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER
			Date Sampled:		09-Mar-2017	09-Mar-2017	09-Mar-2017	09-Mar-2017	09-Mar-2017	09-Mar-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
pH	U	1010		N/A	8.2	8.1	8.1	8.1	8.1	7.5
Electrical Conductivity	U	1020	µS/cm	1.0	620	530	600	460	760	730
Total Dissolved Solids	N		mg/l	1.0	370	320	360	280	460	440
Chloride	U	1220	mg/l	1.0	28	39	31	14	19	57
Ammoniacal Nitrogen	U	1220	mg/l	0.010	0.12	0.18	0.20	0.13	0.16	0.14
Nitrite	U	1220	mg/l	0.020	0.033	0.027	0.022	< 0.020	0.32	0.12
Nitrate	U	1220	mg/l	0.50	2.3	< 0.50	0.80	< 0.50	21	19
Sulphate	U	1220	mg/l	1.0	150	75	120	67	230	52
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Potassium	U	1415	mg/l	0.50	0.88	1.7	1.4	7.8	3.8	1.2
Magnesium	U	1415	mg/l	0.50	3.8	5.1	5.2	16	7.0	2.8
Sodium	U	1415	mg/l	0.50	30	32	31	24	33	50
Total Hardness as CaCO3	U	1270	mg/l	15	380	330	380	440	480	350
Arsenic (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Boron (Dissolved)	U	1450	µg/l	20	640	550	710	620	750	580
Cadmium (Dissolved)	U	1450	µg/l	0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080
Copper (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0	< 1.0	1.5	2.6	1.4
Mercury (Dissolved)	U	1450	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nickel (Dissolved)	U	1450	µg/l	1.0	1.6	1.2	1.9	1.8	2.1	2.2
Lead (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Selenium (Dissolved)	U	1450	µg/l	1.0	1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0
Vanadium (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (Dissolved)	U	1450	µg/l	1.0	9.7	3.4	5.8	35	19	9.7
Chromium (Total)	U	1450	µg/l	1.0	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: 173042 Upper Heyford

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-05981	17-05981	17-05981	17-05981	17-05981	17-05981
Quotation No.:		**Chemtest Sample ID.:**			423333	423334	423335	423336	423337	423338
		Client Sample ID.:			BH01	BH02	BH03	BH04	BH05	BH06
		Sample Type:			WATER	WATER	WATER	WATER	WATER	WATER
		Date Sampled:			09-Mar-2017	09-Mar-2017	09-Mar-2017	09-Mar-2017	09-Mar-2017	09-Mar-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1700	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N–dimethyl-pphenylenediamine.
1415	Cations in Waters by ICP-MS	Sodium; Potassium; Calcium; Magnesium	Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GC FID detection
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
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

Wellhead parameters

BH1	Time	pH	ORP	Conductiv	DO	Temperature
	30.08313	7.31	45.7	764.7	1.32	8.85
	60.02564	7.29	43.2	761.6	1.3	9.02
	90.02658	7.27	41.1	759.3	1.29	9.16

BH2	Time	pH	ORP	Conductiv	DO	Temperature
	30.102	7.1	50.3	706.5	2.1	8.03
	60.02689	7.08	47.1	711.4	1.11	8.08
	90.02802	7.07	44.1	712.6	0.7	8.23
	120.0256	7.07	41.3	711.2	0.55	8.33
	150.0276	7.06	38.5	711.6	0.5	8.42

BH3	Time	pH	ORP	Conductiv	DO	Temperature
	30.08754	7.23	57.4	794.2	2.56	8.94
	60.02556	7.21	54.1	789	2.34	9.27
	90.02468	7.2	52.1	785	2.23	9.44
	120.027	7.19	50.9	781.6	2.23	9.56

BH4	Time	pH	ORP	Conductiv	DO	Temperature
	30.09393	7.29	65.3	711.9	1.35	9.51
	60.02942	7.29	59.7	712.3	1.25	9.53
	90.02397	7.29	55.3	712.9	1.17	9.54

BH5	Time	pH	ORP	Conductiv	DO	Temperature
	30.10577	7.29	49.7	988.8	5.96	8.85
	60.02574	7.28	45.7	987.8	6.01	8.87
	90.02403	7.27	42.7	986.5	6.13	8.89

BH6	Time	pH	ORP	Conductiv	DO	Temperature
	30.09153	7.26	54.6	846.7	4.73	7.35
	60.02663	7.24	49.8	840.3	4.51	7.7
	90.02637	7.23	46	835	4.37	7.91
	120.0259	7.22	43	832	4.28	8.04
	150.0283	7.21	40.6	829.4	4.23	8.13

Appendix D
Remedial Photo Plates

Comment VE1 excavated down to rock. VS01 taken from eastern boundary.	**Project** 173042
	Reference Plate 1
	Date 06/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment VE2 excavated down to rock/clay.	**Project** 173042
	Reference Plate 2
	Date 06/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment VE3 excavated down to rock/clay.	**Project** 173042
	Reference Plate 3
	Date 06/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment VE4 before removal of UST, note stained soils that has to be left insitu so as not to undermine site boundary fence (VS06).	**Project** 173042
	Reference Plate 4
	Date 06/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of 4500 litre underground storage tank (UST) found in northeast corner of the site (VE4).	**Project** 173042
	Reference Plate 5
	Date 06/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of removed UST.	**Project** 173042
	Reference Plate 6
	Date 06/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of backfill of VE1 to VE3.	**Project** 173042
	Reference Plate 7
	Date 06/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE5 dug to rock.	**Project** 173042
	Reference Plate 8
	Date 09/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE6 being dug to rock.	**Project** 173042
	Reference Plate 9
	Date 10/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE7 dug to rock along northern site boundary (location of VS12). Note slight hydrocarbon staining that could not be dug out as it would undermine the site boundary fence.	**Project** 173042
	Reference Plate 10
	Date 10/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of Oxygen Release Compound (ORC) application along hydrocarbon stained eastern boundary (VE5, VE1 and VE2).	**Project** 173042
	Reference Plate 11
	Date 11/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of ORC application along eastern boundary (VE3).	**Project** 173042
	Reference Plate 12
	Date 10/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of ORC application in VE5.	**Project** 173042
	Reference Plate 13
	Date 10/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of placement of ORC in base of UST hole in northeast site corner (VE4).	**Project** 173042
	Reference Plate 14
	Date 10/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of concrete being placed in base of UST excavation.	**Project** 173042
	Reference Plate 15
	Date 10/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of pipework and stained soils in the southeast corner of VE5. Note pipework left in and heading south under the road and offsite.	**Project** 173042
	Reference Plate 16
	Date 10/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE5 being backfilled.	**Project** 173042
	Reference Plate 17
	Date 10/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE8 being dug to rock.	**Project** 173042
	Reference Plate 18
	Date 11/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE6 and VE8 being backfilled.	**Project** 173042
	Reference Plate 19
	Date 11/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE9 being excavated to rock note hydrocarbon stained soils being excavated.	**Project** 173042
	Reference Plate 20
	Date 12/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE9 being backfilled.	**Project** 173042
	Reference Plate 21
	Date 12/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View following rolling of northeast corner of the site.	**Project** 173042
	Reference Plate 22
	Date 12/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE10 once grossly impacted material has been removed.	**Project** 173042
	Reference Plate 23
	Date 13/10/16
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE11 once grossly impacted material has been removed.	**Project** 173042
	Reference Plate 24
	Date 13/10/16
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment VE12 being excavated, note hydrocarbon stained material being excvated.	**Project** 173042
	Reference Plate 25
	Date 16/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment VE13 following removal of grossly impacted material.	**Project** 173042
	Reference Plate 26
	Date 17/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment VE10 to VE13 being backfilled	**Project** 173042
	Reference Plate 27
	Date 17/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment VE10 to VE13 being rolled.	**Project** 173042
	Reference Plate 28
	Date 18/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of stockpile clean backfill material.	**Project** 173042
	Reference Plate 29
	Date 11/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of off-site stockpile of hydrocarbon impacted soils that have been removed from site.	**Project** 173042
	Reference Plate 30
	Date 19/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE14 before removal of pipework and taking of VS26 and VS27.	**Project** 173042
	Reference Plate 31
	Date 17/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE15 once grossly impacted material had been removed.	**Project** 173042
	Reference Plate 32
	Date 18/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE16 being excavated, note hydrocarbon stained material being removed from excavation.	**Project** 173042
	Reference Plate 33
	Date 18/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE17 being backfilled following removal of grossly impacted material.	**Project** 173042
	Reference Plate 34
	Date 18/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE18 with 4500 litre UST present.	**Project** 173042
	Reference Plate 35
	Date 19/1017
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment	**Project** 173042
View of UST hole pumped of water and being filled with ORC. Note water main on left of the photo (it was turned off on the morning of the works).	**Reference** Plate 36
	Date 19/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of typical VE19 pipe trench (following removal of pipework).	**Project** 173042
	Reference Plate 37
	Date 19/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE20 being down to clean rock, note hydrocarbon stained surface of the strata yet to be dug out.	**Project** 173042
	Reference Plate 38
	Date 20/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE21 following excavation of grossly impacted material.	**Project** 173042
	Reference Plate 39
	Date 20/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VE22 being dug out of grossly impacted material. Note the hydrocarbon staining on the sidewalls of the excavation. This material on the edge northern and eastern of the excavation left insitu failed the remedial criteria and had to be dug out (VS56 and VS57).	**Project** 173042
	Reference Plate 40
	Date 20/10/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VS27 validation failure being dug out and re-validated (VS75-79).	**Project** 173042
	Reference Plate 41
	Date 02/11/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VS44 validation failure being dug out and re-validated (VS67-71).	**Project** 173042
	Reference Plate 42
	Date 02/11/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VTP01.	**Project** 173042
	Reference Plate 43
	Date 03/11/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VTP02.	**Project** 173042
	Reference Plate 44
	Date 03/11/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VTP03.	**Project** 173042
	Reference Plate 45
	Date 03/11/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VTP04.	**Project** 173042
	Reference Plate 46
	Date 03/11/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VTP05.	**Project** 173042
	Reference Plate 47
	Date 03/11/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Comment View of VTP06.	**Project** 173042
	Reference Plate 48
	Date 03/11/17
	Originator Richard Heath
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com

Appendix E
Laboratory Certificates of Analysis

Chemtest
The right chemistry to deliver results
Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	17-26682-1
Initial Date of Issue:	13-Oct-2017
Client	AA Environmental Ltd
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX
Contact(s):	Carrie Lorton Ed Brown Jack Taylor John McCusker Mark Anderson Matthew Lawman Richard Heath Sam Muir
Project	173042 Upper Heyford

Quotation No.:		**Date Received:**	11-Oct-2017
Order No.:	173042	**Date Instructed:**	11-Oct-2017
No. of Samples:	7		
Turnaround (Wkdays):	3	**Results Due:**	13-Oct-2017
Date Approved:	13-Oct-2017		

Approved By:

[redacted]

Details: Robert Monk, Technical Manager

Results - Soil

Project: 173042 Upper Heyford

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-26682	17-26682	17-26682	17-26682	17-26682	17-26682	17-26682
Quotation No.:		**Chemtest Sample ID.:**			522881	522882	522883	522884	522885	522886	522887
Order No.: 173042		Client Sample Ref.:			VE1E	VE2E	VE2B	VE3E	VE3B	VE4E	VE4B
		Client Sample ID.:			VS01	VS02	VS03	US04	US05	US06	US07
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.80	0.80	1.50	1.00	1.50	1.00	2.50
		Bottom Depth (m):			1.30	1.30	1.55	1.50		1.50	
		Date Sampled:			06-Oct-2017	06-Oct-2017	06-Oct-2017	09-Oct-2017	09-Oct-2017	09-Oct-2017	09-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
Moisture	N	2030	%	0.020	22	21	26	12	15	18	16
Soil Colour	N	2040		N/A	Brown	Brown	Grey	Grey	Grey	Brown	Grey
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones,
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay	Clay
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	27	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	160	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	150	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	350	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	33	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.4	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	42	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	390	< 10

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection

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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	17-27165-1
Initial Date of Issue:	19-Oct-2017
Client	AA Environmental Ltd
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX
Contact(s):	Carrie Lorton Ed Brown Jack Taylor John McCusker Mark Anderson Matthew Lawman Richard Heath Sam Muir
Project	173042 Upper Heyford

Quotation No.:		**Date Received:**	16-Oct-2017
Order No.:	173042	**Date Instructed:**	16-Oct-2017
No. of Samples:	7		
Turnaround (Wkdays):	3	**Results Due:**	18-Oct-2017
Date Approved:	19-Oct-2017		

Approved By:

[redacted]

Details: Glynn Harvey, Laboratory Manager

Results - Soil

Project: 173042 Upper Heyford

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-27165	17-27165	17-27165	17-27165	17-27165	17-27165	17-27165
Quotation No.:		**Chemtest Sample ID.:**			525248	525249	525250	525251	525252	525253	525254
Order No.: 173042		Client Sample Ref.:			VE5 E	VE5 S	VE6 N	VE6 S	VE7 N	VE8 N	VE8 S
		Client Sample ID.:			VS08	VS09	VS10	VS11	VS12	VS13	VS14
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			1.0	1.0	0.6	0.6	1.2	0.9	0.7
		Bottom Depth (m):			1.3	1.3	1.1	1.2	1.4	1.3	1.1
		Date Sampled:			10-Oct-2017	10-Oct-2017	11-Oct-2017	11-Oct-2017	12-Oct-2017	12-Oct-2017	12-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
Moisture	N	2030	%	0.020	14	21	13	12	15	11	10
Soil Colour	N	2040		N/A	Brown	Grey	Brown	Brown	Grey	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Sand	Sand
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.2	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	74	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	370	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	270	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	210	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	6.3	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	930	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.7	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	80	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	130	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	58	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	270	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	1200	< 10	< 10

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
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I/S	Insufficient Sample
U/S	Unsuitable Sample
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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, SVOCs, PCBs, Phenols
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All soil samples will be retained for a period of 45 days from the date of receipt
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If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest
The right chemistry to deliver results
Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	17-27434-1
Initial Date of Issue:	20-Oct-2017
Client	AA Environmental Ltd
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX
Contact(s):	Carrie Lorton Ed Brown Jack Taylor John McCusker Mark Anderson Matthew Lawman Richard Heath Sam Muir
Project	173042 Upper Heyford

Quotation No.:		**Date Received:**	18-Oct-2017
Order No.:	173042	**Date Instructed:**	18-Oct-2017
No. of Samples:	6		
Turnaround (Wkdays):	3	**Results Due:**	20-Oct-2017
Date Approved:	20-Oct-2017		

Approved By:

[redacted]

Details: Glynn Harvey, Laboratory Manager

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 173042 Upper Heyford

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-27434	17-27434	17-27434	17-27434	17-27434	17-27434
Quotation No.:		**Chemtest Sample ID.:**			526644	526645	526646	526647	526648	526649
Order No.: 173042			Client Sample Ref.:		VE9N	VE9B	VE9S	VE10N	VE10B	VE11B
			Client Sample ID.:		VS15	VS16	VS17	VS18	VS19	VS20
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.7	1.1	0.5	0.9	1.2	1.05
			Bottom Depth (m):		1.1		1.0	1.2		
			Date Sampled:		13-Oct-2017	13-Oct-2017	13-Oct-2017	13-Oct-2017	13-Oct-2017	16-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
Moisture	N	2030	%	0.020	16	15	11	16	15	17
Soil Colour	N	2040		N/A	Brown	Green, Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Roots, Stones	Stones	Stones	Stones	NONE	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection

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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	17-27633-1
Initial Date of Issue:	24-Oct-2017
Client	AA Environmental Ltd
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX
Contact(s):	Carrie Lorton Ed Brown Jack Taylor John McCusker Mark Anderson Matthew Lawman Richard Heath Sam Muir
Project	173042 Upper Heyford

Quotation No.:		**Date Received:**	20-Oct-2017
Order No.:	173042	**Date Instructed:**	20-Oct-2017
No. of Samples:	11		
Turnaround (Wkdays):	3	**Results Due:**	24-Oct-2017
Date Approved:	24-Oct-2017		

Approved By:

[redacted]

Details: Glynn Harvey, Laboratory Manager

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 173042 Upper Heyford

Client: AA Environmental Ltd			**Chemtest Job No.:**		17-27633	17-27633	17-27633	17-27633	17-27633	17-27633	17-27633	17-27633	17-27633
Quotation No.:			**Chemtest Sample ID.:**		527605	527606	527607	527608	527609	527610	527611	527612	527613
Order No.: 173042			Client Sample Ref.:		VE12B	VE11S	VE13 W	VE13 N	VE13 B	VE14 B	VE14 B	VE15 B	B
			Client Sample ID.:		VS21	VS22	VS23	VS24	VS25	VS26	VS27	VS28	VS29
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		1.0	0.7	1.0	1.0	1.3	0.25	0.5	1.3	1.5
			Bottom Depth (m):			1.0	1.30	1.30					
			Date Sampled:		17-Oct-2017	17-Oct-2017	17-Oct-2017	17-Oct-2017	17-Oct-2017	18-Oct-2017	18-Oct-2017	18-Oct-2017	18-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Moisture	N	2030	%	0.020	13	17	20	14	16	11	13	12	12
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.5	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	210	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	420	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	130	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	770	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	3.1	< 1.0	< 1.0	17	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	8.3	< 1.0	< 1.0	12	< 1.0	< 1.0	56	< 1.0	< 1.0
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	14	< 1.0	< 1.0	15	< 1.0	< 1.0	21	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	22	< 5.0	< 5.0	31	< 5.0	< 5.0	94	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	22	< 10	< 10	31	< 10	< 10	860	< 10	< 10

Results - Soil

Project: 173042 Upper Heyford

Client: AA Environmental Ltd			**Chemtest Job No.:**		17-27633	17-27633
Quotation No.:			**Chemtest Sample ID.:**		527614	527615
Order No.: 173042			Client Sample Ref.:		VE16 B	VE17 B
			Client Sample ID.:		VS30	VS31
			Sample Type:		SOIL	SOIL
			Top Depth (m):		1.5	1.5
			Bottom Depth (m):			
			Date Sampled:		18-Oct-2017	19-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Moisture	N	2030	%	0.020	14	14
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection

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<	"less than"
>	"greater than"

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The results relate only to the items tested
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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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Amended Report

Report No.:	17-27867-2		
Initial Date of Issue:	26-Oct-2017	**Date of Re-Issue:**	01-Nov-2017
Client	AA Environmental Ltd		
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX		
Contact(s):	Carrie Lorton Ed Brown Jack Taylor John McCusker Mark Anderson Matthew Lawman Richard Heath Sam Muir		
Project	173042 Upper Heyford		
Quotation No.:		**Date Received:**	23-Oct-2017
Order No.:	173042	**Date Instructed:**	23-Oct-2017
No. of Samples:	26		
Turnaround (Wkdays):	8	**Results Due:**	01-Nov-2017
Date Approved:	01-Nov-2017		
Approved By:	[redacted]		
Details:	Martin Dyer, Laboratory Manager		

Results - Soil

Project: 173042 Upper Heyford

Client: AA Environmental Ltd					**Chemtest Job No.:**	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867
Quotation No.:					**Chemtest Sample ID.:**	528450	528451	528452	528453	528454	528455	528456	528457	528458
Order No.: 173042					Client Sample Ref.:	VE18	VE18	VE18	VE18	VE19	VE19	VE19	VE19	VE19
					Client Sample ID.:	VS35	VS36	VS37	VS38	VS39	VS40	VS41	VS42	VS43
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	3.5	3.5	3.5	3.5	1.7	1.2	1.4	1.3	1.2
					Bottom Depth (m):	4.0	4.0	4.0	4.0					
					Date Sampled:	19-Oct-2017	19-Oct-2017	19-Oct-2017	19-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Moisture	N	2030	%	0.020		15	23	17	16	15	11	14	12	15
Soil Colour	N	2040		N/A		Beige	Grey	Beige	Grey	Brown	Beige	Brown	Beige	Brown
Other Material	N	2040		N/A		Stones	Stones	Stones	Stones	Stones	Stones	Sand, Clay	Stones	Stones
Soil Texture	N	2040		N/A		Clay	Clay	Clay	Clay	Clay	Sand, Clay	Sand	Sand	Sand, Clay
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Results - Soil

Project: 173042 Upper Heyford

Client: AA Environmental Ltd					**Chemtest Job No.:**	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867
Quotation No.:					**Chemtest Sample ID.:**	528459	528462	528463	528464	528465	528466	528467	528468	528469
Order No.: 173042					Client Sample Ref.:	VE19	VE19	VE19	VE19	VE20N	VE20E	VE20S	VE20W	VE20B
					Client Sample ID.:	VS44	VS45	VS46	VS47	VS48	VS49	VS50	VS51	VS52
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	1.2	1.4	1.4	1.4	1.5	1.5	1.5	1.5	2.0
					Bottom Depth (m):					2.0	2.0	2.0	2.0	
					Date Sampled:	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Moisture	N	2030	%	0.020		13	16	17	19	10	12	10	12	10
Soil Colour	N	2040		N/A		Beige	Brown	Brown	Brown	Beige	Brown	Beige	Brown	Brown
Other Material	N	2040		N/A		Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A		Sand	Clay	Clay	Clay	Sand	Sand	Clay	Sand	Sand
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0		2.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.5	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0		42	< 1.0	< 1.0	< 1.0	57	54	< 1.0	67	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0		39	< 1.0	< 1.0	< 1.0	76	67	< 1.0	70	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0		90	< 1.0	< 1.0	< 1.0	18	18	< 1.0	26	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		170	< 5.0	< 5.0	< 5.0	150	140	< 5.0	170	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		< 1.0	5.5	< 1.0	< 1.0	5.8	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0		150	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		150	16	< 5.0	< 5.0	5.8	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		320	16	< 10	< 10	160	140	< 10	170	< 10

Results - Soil

Project: 173042 Upper Heyford

Client: AA Environmental Ltd					Chemtest Job No.:	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867
Quotation No.:					Chemtest Sample ID.:	528470	528471	528472	528473	528474	528475
Order No.: 173042					Client Sample Ref.:	VE19	VE19	VE19	VE15	VE17	VE16
					Client Sample ID.:	VS53	VS54	VS55	VS32	VS33	VS34
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	1.4	1.4	1.4	0.7	0.9	0.9
					Bottom Depth (m):				1.3	1.2	1.2
					Date Sampled:	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
Moisture	N	2030	%	0.020		16	15	13	15	14	13
Soil Colour	N	2040		N/A		Brown	Brown	Brown			
Other Material	N	2040		N/A		Stones	Stones	Stones			
Soil Texture	N	2040		N/A		Clay	Clay, Sand	Sand			
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		< 10	< 10	< 10	< 10	< 10	< 10

Results - Water

Project: 173042 Upper Heyford

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-27867	17-27867
Quotation No.:		**Chemtest Sample ID.:**			528460	528461
		Client Sample ID.:			GAC IN	GAC OUT
		Sample Type:			WATER	WATER
		Date Sampled:			20-Oct-2017	20-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	11	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	120	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	260	< 0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	200	< 0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	580	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	580	< 10

Test Methods

SOP	Title	Parameters included	Method summary
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection

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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	17-27937-1
Initial Date of Issue:	26-Oct-2017
Client	AA Environmental Ltd
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX
Contact(s):	Carrie Lorton Ed Brown Jack Taylor John McCusker Mark Anderson Matthew Lawman Richard Heath Sam Muir
Project	173042 Upper Heyford

Quotation No.:		**Date Received:**	24-Oct-2017
Order No.:	173042	**Date Instructed:**	24-Oct-2017
No. of Samples:	4		
Turnaround (Wkdays):	3	**Results Due:**	26-Oct-2017
Date Approved:	26-Oct-2017		

Approved By:

[redacted]

Details: Glynn Harvey, Laboratory Manager

Results - Soil

Project: 173042 Upper Heyford

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-27937	17-27937	17-27937	17-27937
Quotation No.:		**Chemtest Sample ID.:**			529012	529013	529014	529015
Order No.: 173042		Client Sample Ref.:			VE21 N	VE21 E	VE21 S	VE21 W
		Client Sample ID.:			VS56	VS57	VS58	VS59
		Sample Type:			SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			1.55	1.55	1.55	1.55
		Bottom Depth (m):			2.00	2.00	2.00	2.00
		Date Sampled:			20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
Moisture	N	2030	%	0.020	13	10	11	13
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	NONE	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	34	40	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	220	170	13	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	1100	740	110	85
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	830	560	97	70
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	150	97	28	30
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	2400	1600	240	180
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	23	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	200	120	21	3.8
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	200	130	1.7	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	51	38	12	2.4
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	440	320	35	6.2
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	2800	1900	280	190

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection

Report Information

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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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	17-29152-1
Initial Date of Issue:	07-Nov-2017
Client	AA Environmental Ltd
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX
Contact(s):	Carrie Lorton Ed Brown Jack Taylor John McCusker Mark Anderson Matthew Lawman Richard Heath Sam Muir
Project	173042 Upper Heyford

Quotation No.:		**Date Received:**	03-Nov-2017
Order No.:	173042	**Date Instructed:**	03-Nov-2017
No. of Samples:	3		
Turnaround (Wkdays):	3	**Results Due:**	07-Nov-2017
Date Approved:	07-Nov-2017		

Approved By:

[redacted]

Details: Glynn Harvey, Laboratory Manager

Results - Soil

Project: 173042 Upper Heyford

Client: AA Environmental Ltd			**Chemtest Job No.:**		17-29152	17-29152	17-29152
Quotation No.:			**Chemtest Sample ID.:**		534222	534223	534224
Order No.: 173042			Client Sample Ref.:		VE22E	VE22S	VE22N
			Client Sample ID.:		VS60	VS61	VS62
			Sample Type:		SOIL	SOIL	SOIL
			Top Depth (m):		1.20	1.50	1.40
			Bottom Depth (m):		1.50	1.80	1.70
			Date Sampled:		31-Oct-2017	31-Oct-2017	31-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Moisture	N	2030	%	0.020	9.5	11	15
Soil Colour	N	2040		N/A	Beige	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones	Stones, Brick
Soil Texture	N	2040		N/A	Loam	Loam	Loam
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection

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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	17-29189-1
Initial Date of Issue:	07-Nov-2017
Client	AA Environmental Ltd
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX
Contact(s):	Carrie Lorton Ed Brown Jack Taylor John McCusker Mark Anderson Matthew Lawman Richard Heath Sam Muir
Project	173042 Upper Heyford

Quotation No.:		**Date Received:**	03-Nov-2017
Order No.:	173042	**Date Instructed:**	03-Nov-2017
No. of Samples:	12		
Turnaround (Wkdays):	3	**Results Due:**	07-Nov-2017
Date Approved:	07-Nov-2017		

Approved By:

[redacted]

Details: Martin Dyer, Laboratory Manager

Results - Soil

Project: 173042 Upper Heyford

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-29189	17-29189	17-29189	17-29189	17-29189	17-29189	17-29189	17-29189
Quotation No.:		**Chemtest Sample ID.:**			534362	534363	534364	534365	534366	534367	534368	534369
Order No.: 173042		Client Sample Ref.:			VE19	VE19	VE19	VE19	44N	44E	44S	44W
		Client Sample ID.:			VS63	VS64	VS65	VS66	VS67	VS68	VS69	VS70
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			1.20	1.20	1.20	1.10	1.20	1.20	1.20	1.20
		Bottom Depth (m):			1.30	1.30	1.30	1.20	1.40	1.40	1.40	1.40
		Date Sampled:			01-Nov-2017	01-Nov-2017	01-Nov-2017	01-Nov-2017	01-Nov-2017	01-Nov-2017	01-Nov-2017	01-Nov-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Moisture	N	2030	%	0.020	14	13	14	14	12	11	10	14
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones, Roots	Stones, Roots	Stones, Roots	Stones, Roots	Stones, Roots	Stones, Roots	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay, Sand	Clay	Clay
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	6.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	8.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Results - Soil

Project: 173042 Upper Heyford

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-29189	17-29189	17-29189	17-29189
Quotation No.:		**Chemtest Sample ID.:**			534370	534371	534372	534373
Order No.: 173042		Client Sample Ref.:			45B	VE22N	VE22E	VE22W
		Client Sample ID.:			VS71	VS72	VS73	VS74
		Sample Type:			SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			1.40	1.70	1.60	1.60
		Bottom Depth (m):				2.00	1.80	1.70
		Date Sampled:			01-Nov-2017	02-Nov-2017	02-Nov-2017	02-Nov-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
Moisture	N	2030	%	0.020	14	14	11	12
Soil Colour	N	2040		N/A	Beige	Beige, Brown	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection

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
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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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Amended Report

Report No.:	17-29340-2		
Initial Date of Issue:	08-Nov-2017	**Date of Re-Issue:**	15-Nov-2017
Client	AA Environmental Ltd		
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX		
Contact(s):	Carrie Lorton Ed Brown Jack Taylor John McCusker Mark Anderson Matthew Lawman Richard Heath Sam Muir		
Project	173042 Upper Heyford		
Quotation No.:		**Date Received:**	06-Nov-2017
Order No.:	173042	**Date Instructed:**	06-Nov-2017
No. of Samples:	13		
Turnaround (Wkdays):	3	**Results Due:**	08-Nov-2017
Date Approved:	15-Nov-2017		
Approved By:	[redacted]		
Details:	Glynn Harvey, Laboratory Manager		

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 173042 Upper Heyford

Client: AA Environmental Ltd					**Chemtest Job No.:**	17-29340	17-29340	17-29340	17-29340	17-29340	17-29340	17-29340	17-29340	17-29340
Quotation No.:					**Chemtest Sample ID.:**	535076	535077	535078	535079	535080	535081	535082	535083	535084
Order No.: 173042					Client Sample Ref.:	27N	27E	27W	27S	27B	VE17N	VE16/SW	VTP01	VTP02
					Client Sample ID.:	VS75	VS76	VS77	VS78	VS79	VS80	VS81	VS82	VS83
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.5	0.5	0.5	0.5	0.7	1.25	1.25	1.0	0.8
					Bottom Depth (m):						1.5	1.5	1.2	1.1
					Date Sampled:	02-Nov-2017	02-Nov-2017	02-Nov-2017	02-Nov-2017	02-Nov-2017	02-Nov-2017	02-Nov-2017	03-Nov-2017	03-Nov-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Moisture	N	2030	%	0.020		11	11	12	11	11	11	10	11	9.3
Soil Colour	N	2040		N/A		Brown	Brown	Brown	Brown	Brown	Brown	Brown	Beige	Beige
Other Material	N	2040		N/A		Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A		Loam	Loam	Clay	Clay	Clay	Loam	Clay	Clay	Sand
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		6.7	7.0	11	5.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0		< 1.0	16	18	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		6.7	23	29	5.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		< 10	23	29	< 10	< 10	< 10	< 10	< 10	< 10

Results - Soil

Project: 173042 Upper Heyford

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-29340	17-29340	17-29340	17-29340
Quotation No.:		**Chemtest Sample ID.:**			535085	535086	535087	535088
Order No.: 173042		Client Sample Ref.:			VTP03	VTP04	VTP05	VTP06
		Client Sample ID.:			VS84	VS85	VS86	VS87
		Sample Type:			SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.7	0.75	1.0	0.6
		Bottom Depth (m):			1.2	1.0	1.2	0.8
		Date Sampled:			03-Nov-2017	03-Nov-2017	03-Nov-2017	03-Nov-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
Moisture	N	2030	%	0.020	12	19	9.8	9.9
Soil Colour	N	2040		N/A	Beige	Beige	Beige	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Loam	Loam	Sand	Sand
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection

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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.: 17-05108-1

Initial Date of Issue: 06-Mar-2017

Client AA Environmental Ltd

Client Address: Units 4 to 8
Cholswell Court
Shippon
Abingdon
Oxfordshire
OX136HX

Contact(s): Carrie Lorton
Ed Brown
Jack Taylor
Mark Anderson
Matthew Lawman
Richard Heath
Sam Muir

Project 173042 Agetur - Upper Heyford Remediation

Quotation No.:

Order No.:

No. of Samples: 6

Turnaround (Wkdays): 3

Date Approved: 06-Mar-2017

Approved By:

[redacted]

Details: Martin Dyer, Laboratory Manager

Date Received: 02-Mar-2017

Date Instructed: 02-Mar-2017

Results Due: 06-Mar-2017

Results - Water

Project: 173042 Agetur - Upper Heyford Remediation

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-05108	17-05108	17-05108	17-05108	17-05108	17-05108
Quotation No.:		**Chemtest Sample ID.:**			419201	419202	419203	419204	419205	419206
Order No.:		Client Sample Ref.:			R1	R1	R1	R1	R1	R1
		Client Sample ID.:			BH01	BH02	BH03	BH04	BH05	BH06
		Sample Type:			WATER	WATER	WATER	WATER	WATER	WATER
		Date Sampled:			28-Feb-2017	28-Feb-2017	28-Feb-2017	28-Feb-2017	28-Feb-2017	28-Feb-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
pH	U	1010		N/A	8.1	8.1	8.1	8.2	8.1	8.1
Electrical Conductivity	U	1020	µS/cm	1.0	470	470	530	510	820	540
Total Dissolved Solids	N		mg/l	1.0	280	280	320	310	500	320
Chloride	U	1220	mg/l	1.0	39	37	29	23	33	63
Ammoniacal Nitrogen	U	1220	mg/l	0.010	0.33	0.33	0.45	0.28	0.42	0.37
Nitrite	U	1220	mg/l	0.020	0.063	0.035	0.070	0.24	0.69	0.057
Nitrate	U	1220	mg/l	0.50	< 0.50	< 0.50	1.1	< 0.50	5.5	20
Sulphate	U	1220	mg/l	1.0	89	76	120	110	280	51
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Potassium	U	1415	mg/l	0.50	1.4	2.1	3.2	6.4	6.9	1.5
Magnesium	U	1415	mg/l	0.50	4.4	5.2	6.8	11	14	3.5
Sodium	U	1415	mg/l	0.50	28	26	26	27	64	44
Total Hardness as CaCO3	U	1270	mg/l	15	320	350	390	330	510	380
Arsenic (Dissolved)	U	1450	µg/l	1.0	3.5	1.3	< 1.0	1.0	1.3	< 1.0
Boron (Dissolved)	U	1450	µg/l	20	850	670	420	740	780	720
Cadmium (Dissolved)	U	1450	µg/l	0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080
Copper (Dissolved)	U	1450	µg/l	1.0	9.0	2.8	1.9	< 1.0	1.2	< 1.0
Mercury (Dissolved)	U	1450	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.55
Nickel (Dissolved)	U	1450	µg/l	1.0	38	12	7.9	6.4	9.5	5.0
Lead (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	< 1.0
Selenium (Dissolved)	U	1450	µg/l	1.0	1.9	1.1	2.4	11	12	1.6
Vanadium (Dissolved)	U	1450	µg/l	1.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (Dissolved)	U	1450	µg/l	1.0	7.7	4.1	6.4	4.5	11	1.9
Chromium (Total)	U	1450	µg/l	1.0	4.9	2.8	11	4.3	3.7	3.4
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Chemtest
The right chemistry to deliver results

Results - Water

Project: 173042 Agetur - Upper Heyford Remediation

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-05108	17-05108	17-05108	17-05108	17-05108	17-05108
Quotation No.:		**Chemtest Sample ID.:**			419201	419202	419203	419204	419205	419206
Order No.:		Client Sample Ref.:			R1	R1	R1	R1	R1	R1
		Client Sample ID.:			BH01	BH02	BH03	BH04	BH05	BH06
		Sample Type:			WATER	WATER	WATER	WATER	WATER	WATER
		Date Sampled:			28-Feb-2017	28-Feb-2017	28-Feb-2017	28-Feb-2017	28-Feb-2017	28-Feb-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1700	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N–dimethyl-pphenylenediamine.
1415	Cations in Waters by ICP-MS	Sodium; Potassium; Calcium; Magnesium	Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GC FID detection
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

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N	Unaccredited
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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
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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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	17-05981-1
Initial Date of Issue:	14-Mar-2017
Client	AA Environmental Ltd
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX
Contact(s):	Carrie Lorton Ed Brown Jack Taylor John McCusker John McCusker Mark Anderson Matthew Lawman Richard Heath Sam Muir Sam Muir
Project	173042 Upper Heyford

Quotation No.:		**Date Received:**	10-Mar-2017
Order No.:		**Date Instructed:**	10-Mar-2017
No. of Samples:	6		
Turnaround (Wkdays):	3	**Results Due:**	14-Mar-2017
Date Approved:	14-Mar-2017		

Approved By:

[redacted]

Details: Keith Jones, Technical Manager

Chemtest
The right chemistry to deliver results

Results - Water

Project: 173042 Upper Heyford

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-05981	17-05981	17-05981	17-05981	17-05981	17-05981
Quotation No.:		**Chemtest Sample ID.:**			423333	423334	423335	423336	423337	423338
		Client Sample ID.:			BH01	BH02	BH03	BH04	BH05	BH06
		Sample Type:			WATER	WATER	WATER	WATER	WATER	WATER
		Date Sampled:			09-Mar-2017	09-Mar-2017	09-Mar-2017	09-Mar-2017	09-Mar-2017	09-Mar-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
pH	U	1010		N/A	8.2	8.1	8.1	8.1	8.1	7.5
Electrical Conductivity	U	1020	µS/cm	1.0	620	530	600	460	760	730
Total Dissolved Solids	N		mg/l	1.0	370	320	360	280	460	440
Chloride	U	1220	mg/l	1.0	28	39	31	14	19	57
Ammoniacal Nitrogen	U	1220	mg/l	0.010	0.12	0.18	0.20	0.13	0.16	0.14
Nitrite	U	1220	mg/l	0.020	0.033	0.027	0.022	< 0.020	0.32	0.12
Nitrate	U	1220	mg/l	0.50	2.3	< 0.50	0.80	< 0.50	21	19
Sulphate	U	1220	mg/l	1.0	150	75	120	67	230	52
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Potassium	U	1415	mg/l	0.50	0.88	1.7	1.4	7.8	3.8	1.2
Magnesium	U	1415	mg/l	0.50	3.8	5.1	5.2	16	7.0	2.8
Sodium	U	1415	mg/l	0.50	30	32	31	24	33	50
Total Hardness as CaCO3	U	1270	mg/l	15	380	330	380	440	480	350
Arsenic (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Boron (Dissolved)	U	1450	µg/l	20	640	550	710	620	750	580
Cadmium (Dissolved)	U	1450	µg/l	0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080
Copper (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0	< 1.0	1.5	2.6	1.4
Mercury (Dissolved)	U	1450	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nickel (Dissolved)	U	1450	µg/l	1.0	1.6	1.2	1.9	1.8	2.1	2.2
Lead (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Selenium (Dissolved)	U	1450	µg/l	1.0	1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0
Vanadium (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (Dissolved)	U	1450	µg/l	1.0	9.7	3.4	5.8	35	19	9.7
Chromium (Total)	U	1450	µg/l	1.0	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: 173042 Upper Heyford

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-05981	17-05981	17-05981	17-05981	17-05981	17-05981
Quotation No.:		**Chemtest Sample ID.:**			423333	423334	423335	423336	423337	423338
		Client Sample ID.:			BH01	BH02	BH03	BH04	BH05	BH06
		Sample Type:			WATER	WATER	WATER	WATER	WATER	WATER
		Date Sampled:			09-Mar-2017	09-Mar-2017	09-Mar-2017	09-Mar-2017	09-Mar-2017	09-Mar-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1700	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N–dimethyl-pphenylenediamine.
1415	Cations in Waters by ICP-MS	Sodium; Potassium; Calcium; Magnesium	Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GC FID detection
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	17-06937-1
Initial Date of Issue:	24-Mar-2017
Client	AA Environmental Ltd
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX
Contact(s):	Carrie Lorton Ed Brown Jack Taylor John McCusker Mark Anderson Matthew Lawman Richard Heath Sam Muir
Project	173042 Trenchard Circle Upper Heyford

Quotation No.:		**Date Received:**	22-Mar-2017
Order No.:		**Date Instructed:**	22-Mar-2017
No. of Samples:	6		
Turnaround (Wkdays):	3	**Results Due:**	24-Mar-2017
Date Approved:	24-Mar-2017		

Approved By:

[redacted]

Details: Robert Monk, Technical Development Chemist

Chemtest
The right chemistry to deliver results

Results - Water

Project: 173042 Trenchard Circle Upper Heyford

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-06937	17-06937	17-06937	17-06937	17-06937	17-06937
Quotation No.:		**Chemtest Sample ID.:**			428493	428494	428495	428496	428497	428498
Order No.:		Client Sample Ref.:			R3	R3	R3	R3	R3	R3
		Client Sample ID.:			BH01	BH02	BH03	BH04	BH05	BH06
		Sample Type:			WATER	WATER	WATER	WATER	WATER	WATER
		Date Sampled:			20-Mar-2017	20-Mar-2017	20-Mar-2017	20-Mar-2017	20-Mar-2017	20-Mar-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
pH	U	1010		N/A	7.9	7.9	7.9	7.9	7.8	7.8
Electrical Conductivity	U	1020	µS/cm	1.0	680	670	700	580	1000	840
Total Dissolved Solids	N		mg/l	1.0	410	400	420	350	600	510
Chloride	U	1220	mg/l	1.0	41	39	29	11	26	64
Ammoniacal Nitrogen	U	1220	mg/l	0.010	1.3	1.5	1.4	1.9	2.0	2.0
Nitrite	U	1220	mg/l	0.020	< 0.020	< 0.020	< 0.020	< 0.020	0.31	0.058
Nitrate	U	1220	mg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.3	17
Sulphate	U	1220	mg/l	1.0	76	76	87	50	270	61
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Potassium	U	1415	mg/l	0.50	1.8	2.1	1.9	5.5	4.1	1.8
Magnesium	U	1415	mg/l	0.50	15	10	6.8	13	8.5	3.6
Sodium	U	1415	mg/l	0.50	33	28	25	13	30	47
Total Hardness as CaCO3	U	1270	mg/l	15	360	380	380	340	510	380
Arsenic (Dissolved)	U	1450	µg/l	1.0	1.9	1.3	1.2	1.6	1.1	< 1.0
Boron (Dissolved)	U	1450	µg/l	20	130	51	44	150	72	72
Cadmium (Dissolved)	U	1450	µg/l	0.080	0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080
Copper (Dissolved)	U	1450	µg/l	1.0	2.7	< 1.0	< 1.0	< 1.0	1.1	< 1.0
Mercury (Dissolved)	U	1450	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nickel (Dissolved)	U	1450	µg/l	1.0	10	< 1.0	< 1.0	< 1.0	1.6	< 1.0
Lead (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.7	< 1.0
Selenium (Dissolved)	U	1450	µg/l	1.0	1.4	< 1.0	< 1.0	< 1.0	1.5	1.1
Vanadium (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (Dissolved)	U	1450	µg/l	1.0	48	4.6	4.3	3.1	8.5	4.8
Chromium (Total)	U	1450	µg/l	1.0	5.8	1.9	1.7	1.0	1.1	2.6
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: 173042 Trenchard Circle Upper Heyford

Client: AA Environmental Ltd			**Chemtest Job No.:**		17-06937	17-06937	17-06937	17-06937	17-06937	17-06937
Quotation No.:			**Chemtest Sample ID.:**		428493	428494	428495	428496	428497	428498
Order No.:			Client Sample Ref.:		R3	R3	R3	R3	R3	R3
			Client Sample ID.:		BH01	BH02	BH03	BH04	BH05	BH06
			Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER
			Date Sampled:		20-Mar-2017	20-Mar-2017	20-Mar-2017	20-Mar-2017	20-Mar-2017	20-Mar-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1700	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N–dimethyl-pphenylenediamine.
1415	Cations in Waters by ICP-MS	Sodium; Potassium; Calcium; Magnesium	Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GC FID detection
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.: 17-29333-1

Initial Date of Issue: 08-Nov-2017

Client AA Environmental Ltd

Client Address: Units 4 to 8
Cholswell Court
Shippon
Abingdon
Oxfordshire
OX136HX

Contact(s): Carrie Lorton
Ed Brown
Jack Taylor
John McCusker
Mark Anderson
Matthew Lawman
Richard Heath
Sam Muir

Project 17342 Upper Heyford

Quotation No.:

Date Received: 06-Nov-2017

Order No.: 173042

Date Instructed: 06-Nov-2017

No. of Samples: 6

Turnaround (Wkdays): 3

Results Due: 08-Nov-2017

Date Approved: 08-Nov-2017

Approved By:

Details: Martin Dyer, Laboratory Manager

Chemtest
The right chemistry to deliver results

Results - Water

Project: 17342 Upper Heyford

Client: AA Environmental Ltd		**Chemtest Job No.:**			17-29333	17-29333	17-29333	17-29333	17-29333	17-29333
Quotation No.:		**Chemtest Sample ID.:**			535050	535051	535052	535053	535054	535055
Order No.: 173042		Client Sample Ref.:			BH01	BH02	BH03	BH04	BH05	BH06
		Sample Type:			WATER	WATER	WATER	WATER	WATER	WATER
		Date Sampled:			03-Nov-2017	03-Nov-2017	03-Nov-2017	03-Nov-2017	03-Nov-2017	03-Nov-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10

Test Methods

SOP	Title	Parameters included	Method summary
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection

Report Information

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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, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated 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
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Appendix F
Consolidated Validation Data

Project: 173042 Upper Heyford

Client: AA Environmental Ltd	Chemtest Job No.:							17-26682	17-26682	17-26682	17-26682	17-26682	17-26682	17-26682	17-27165	17-27165	17-27165
Quotation No.:	Chemtest Sample ID.:							522881	522882	522883	522884	522885	522886	522887	525248	525249	525250
Order No.: 173042	Client Sample Ref.:							VE1E	VE2E	VE2B	VE3E	VE3B	VE4E	VE4B	VE5 E	VE5 S	VE6 N
	Client Sample ID.:							VS01	VS02	VS03	VS04	VS05	VS06	VS07	VS08	VS09	VS10
	Sample Type:							SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):							0.80	0.80	1.50	1.00	1.50	1.00	2.50	1.0	1.0	0.6
	Bottom Depth (m):							1.30	1.30	1.55	1.50		1.50		1.3	1.3	1.1
	Date Sampled:							06-Oct-2017	06-Oct-2017	06-Oct-2017	09-Oct-2017	09-Oct-2017	09-Oct-2017	09-Oct-2017	10-Oct-2017	10-Oct-2017	11-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	**MAX**	**GW Screening Value**	**Screening Value**										
Moisture	N	2030	%	0.020	26.00			22	21	26	12	15	18	16	14.00	21.00	13.00
Soil Colour	N	2040		N/A				Brown	Brown	Grey	Grey	Grey	Brown	Grey	Brown	Grey	Brown
Other Material	N	2040		N/A				Stones	Stones	Stones	Stones	Stones	Stones	Stones,	Stones	Stones	Stones
Soil Texture	N	2040		N/A				Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	0.00	2.50		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	0.00	120.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	4.20	500.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	74.00	1900.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	27	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	370.00	11000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	160	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	420.00	560000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	150	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	210.00	511000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	6.30	454000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	930.00			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	350	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	0.00	0.20		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	0.00	6.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	0.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	3.70	20.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	80.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	33	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	130.00	22.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.4	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	58.00	120.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	0.00	100.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	270.00			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	42	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	1200.00			< 10	< 10	< 10	< 10	< 10	390	< 10	< 10	< 10	< 10

Project: 173042 Upper Heyford

Client: AA Environmental Ltd	Chemtest Job No.:							17-27165	17-27165	17-27165	17-27165	17-27434	17-27434	17-27434	17-27434	17-27434	17-27434
Quotation No.:	Chemtest Sample ID.:							525251	525252	525253	525254	526644	526645	526646	526647	526648	526649
Order No.: 173042	Client Sample Ref.:							VE6 S	VE7 N	VE8 N	VE8 S	VE9N	VE9B	VE9S	VE10N	VE10B	VE11B
	Client Sample ID.:							VS11	VS12	VS13	VS14	VS15	VS16	VS17	VS18	VS19	VS20
	Sample Type:							SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):							0.6	1.2	0.9	0.7	0.7	1.1	0.5	0.9	1.2	1.05
	Bottom Depth (m):							1.2	1.4	1.3	1.1	1.1		1.0	1.2		
	Date Sampled:							11-Oct-2017	12-Oct-2017	12-Oct-2017	12-Oct-2017	13-Oct-2017	13-Oct-2017	13-Oct-2017	13-Oct-2017	13-Oct-2017	16-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	**MAX**	**GW Screening Value**	**Screening Value**										
Moisture	N	2030	%	0.020	26.00			12.00	15.00	11.00	10.00	16.00	15.00	11.00	16.00	15.00	17.00
Soil Colour	N	2040		N/A				Brown	Grey	Brown	Brown	Brown	Green, Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A				Stones	Stones	Stones	Stones	Roots, Stones	Stones	Stones	Stones	NONE	Stones
Soil Texture	N	2040		N/A				Clay	Clay	Sand	Sand	Clay	Clay	Clay	Clay	Clay	Clay
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	0.00	2.50		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	0.00	120.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	4.20	500.00		< 1.0	4.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	74.00	1900.00		< 1.0	74.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	370.00	11000.00		< 1.0	370.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	420.00	560000.00		< 1.0	270.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	210.00	511000.00		< 1.0	210.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	6.30	454000.00		< 1.0	6.30	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	930.00			< 5.0	930.00	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	0.00	0.20		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	0.00	6.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	0.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	3.70	20.00		< 1.0	3.70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	80.00	30.00		< 1.0	80.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	130.00	22.00		< 1.0	130.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	58.00	120.00		< 1.0	58.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	0.00	100.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	270.00			< 5.0	270.00	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	1200.00			< 10	1200.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Project: 173042 Upper Heyford

Client: AA Environmental Ltd	Chemtest Job No.:							17-27633	17-27633	17-27633	17-27633	17-27633	17-27633	17-27633	17-27633	17-27633	17-27633
Quotation No.:	Chemtest Sample ID.:							527605	527606	527607	527608	527609	527610	527611	527612	527613	527614
Order No.: 173042	Client Sample Ref.:							VE12B	VE11S	VE13 W	VE13 N	VE13 B	VE14 B	VE14 B	VE15 B	B	VE16 B
	Client Sample ID.:							VS21	VS22	VS23	VS24	VS25	VS26	VS27	VS28	VS29	VS30
	Sample Type:							SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):							1.0	0.7	1.0	1.0	1.3	0.25	0.5	1.3	1.5	1.5
	Bottom Depth (m):								1.0	1.30	1.30						
	Date Sampled:							17-Oct-2017	17-Oct-2017	17-Oct-2017	17-Oct-2017	17-Oct-2017	18-Oct-2017	18-Oct-2017	18-Oct-2017	18-Oct-2017	18-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	**MAX**	**GW Screening Value**	**Screening Value**										
Moisture	N	2030	%	0.020	26.00			13.00	17.00	20.00	14.00	16.00	11.00	13.00	12.00	12.00	14.00
Soil Colour	N	2040		N/A				Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A				Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A				Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	0.00	2.50		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	0.00	120.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	4.20	500.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	74.00	1900.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.50	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	370.00	11000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	210.00	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	420.00	560000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	420.00	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	210.00	511000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	130.00	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	6.30	454000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	930.00			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	770.00	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	0.00	0.20		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	0.00	6.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	0.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	3.70	20.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	80.00	30.00		< 1.0	< 1.0	< 1.0	3.10	< 1.0	< 1.0	17.00	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	130.00	22.00		8.30	< 1.0	< 1.0	12.00	< 1.0	< 1.0	56.00	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	58.00	120.00		14.00	< 1.0	< 1.0	15.00	< 1.0	< 1.0	21.00	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	0.00	100.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	270.00			22.00	< 5.0	< 5.0	31.00	< 5.0	< 5.0	94.00	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	1200.00			22.00	< 10	< 10	31.00	< 10	< 10	860.00	< 10	< 10	< 10

Project: 173042 Upper Heyford

Client: AA Environmental Ltd	Chemtest Job No.:							17-27633	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867
Quotation No.:	Chemtest Sample ID.:							527615	528473	528474	528475	528450	528451	528452	528453	528454	528455
Order No.: 173042	Client Sample Ref.:							VE17 B	VE15	VE17	VE16	VE18	VE18	VE18	VE18	VE19	VE19
	Client Sample ID.:							VS31	VS32	VS33	VS34	VS35	VS36	VS37	VS38	VS39	VS40
	Sample Type:							SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):							1.5	0.7	0.9	0.9	3.5	3.5	3.5	3.5	1.7	1.2
	Bottom Depth (m):								1.3	1.2	1.2	4.0	4.0	4.0	4.0		
	Date Sampled:							19-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	19-Oct-2017	19-Oct-2017	19-Oct-2017	19-Oct-2017	20-Oct-2017	20-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	**MAX**	**GW Screening Value**	**Screening Value**										
Moisture	N	2030	%	0.020	26.00			14.00	15	14	13	15.00	23.00	17.00	16.00	15.00	11.00
Soil Colour	N	2040		N/A				Brown	Brown	Brown	Brown	Beige	Grey	Beige	Grey	Brown	Beige
Other Material	N	2040		N/A				Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A				Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Sand, Clay
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	0.00	2.50		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	0.00	120.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	4.20	500.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	74.00	1900.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	370.00	11000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	420.00	560000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	210.00	511000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	6.30	454000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	930.00			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	0.00	0.20		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	0.00	6.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	0.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	3.70	20.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	80.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	130.00	22.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	58.00	120.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	0.00	100.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	270.00			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	1200.00			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Project: 173042 Upper Heyford

Client: AA Environmental Ltd	Chemtest Job No.:							17-27867	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867	17-27867
Quotation No.:	Chemtest Sample ID.:							528456	528457	528458	528459	528462	528463	528464	528465	528466	528467
Order No.: 173042	Client Sample Ref.:							VE19	VE19	VE19	VE19	VE19	VE19	VE19	VE20N	VE20E	VE20S
	Client Sample ID.:							VS41	VS42	VS43	VS44	VS45	VS46	VS47	VS48	VS49	VS50
	Sample Type:							SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):							1.4	1.3	1.2	1.2	1.4	1.4	1.4	1.5	1.5	1.5
	Bottom Depth (m):														2.0	2.0	2.0
	Date Sampled:							20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	**MAX**	**GW Screening Value**	**Screening Value**										
Moisture	N	2030	%	0.020	26.00			14.00	12.00	15.00	13.00	16.00	17.00	19.00	10.00	12.00	10.00
Soil Colour	N	2040		N/A				Brown	Beige	Brown	Beige	Brown	Brown	Brown	Beige	Brown	Beige
Other Material	N	2040		N/A				Sand, Clay	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A				Sand	Sand	Sand, Clay	Sand	Clay	Clay	Clay	Sand	Sand	Clay
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	0.00	2.50		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	0.00	120.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	4.20	500.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	74.00	1900.00		< 1.0	< 1.0	< 1.0	2.80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	370.00	11000.00		< 1.0	< 1.0	< 1.0	42.00	< 1.0	< 1.0	< 1.0	57.00	54.00	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	420.00	560000.00		< 1.0	< 1.0	< 1.0	39.00	< 1.0	< 1.0	< 1.0	76.00	67.00	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	210.00	511000.00		< 1.0	< 1.0	< 1.0	90.00	< 1.0	< 1.0	< 1.0	18.00	18.00	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	6.30	454000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	930.00			< 5.0	< 5.0	< 5.0	170.00	< 5.0	< 5.0	< 5.0	150.00	140.00	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	0.00	0.20		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	0.00	6.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	0.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	3.70	20.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	80.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	130.00	22.00		< 1.0	< 1.0	< 1.0	< 1.0	5.50	< 1.0	< 1.0	5.80	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	58.00	120.00		< 1.0	< 1.0	< 1.0	150.00	10.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	0.00	100.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	270.00			< 5.0	< 5.0	< 5.0	150.00	16.00	< 5.0	< 5.0	5.80	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	1200.00			< 10	< 10	< 10	320.00	16.00	< 10	< 10	160.00	140.00	< 10

Project: 173042 Upper Heyford

Client: AA Environmental Ltd	Chemtest Job No.:							17-27867	17-27867	17-27867	17-27867	17-27867	17-27937	17-27937	17-27937	17-27937	17-29152
Quotation No.:	Chemtest Sample ID.:							528468	528469	528470	528471	528472	529012	529013	529014	529015	534222
Order No.: 173042	Client Sample Ref.:							VE20W	VE20B	VE19	VE19	VE19	VE21 N	VE21 E	VE21 S	VE21 W	VE22E
	Client Sample ID.:							VS51	VS52	VS53	VS54	VS55	VS56	VS57	VS58	VS59	VS60
	Sample Type:							SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):							1.5	2.0	1.4	1.4	1.4	1.55	1.55	1.55	1.55	1.20
	Bottom Depth (m):							2.0					2.00	2.00	2.00	2.00	1.50
	Date Sampled:							20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	20-Oct-2017	31-Oct-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	**MAX**	**GW Screening Value**	**Screening Value**										
Moisture	N	2030	%	0.020	26.00			12.00	10.00	16.00	15.00	13.00	13.00	10.00	11	13	9.50
Soil Colour	N	2040		N/A				Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Beige
Other Material	N	2040		N/A				Stones	Stones	Stones	Stones	Stones	Stones	NONE	Stones	Stones	Stones
Soil Texture	N	2040		N/A				Sand	Sand	Clay	Clay, Sand	Sand	Sand	Sand	Sand	Sand	Loam
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	0.00	2.50		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	0.00	120.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	4.20	500.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	34.00	40.00	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	74.00	1900.00		4.50	< 1.0	< 1.0	< 1.0	< 1.0	220.00	170.00	13	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	370.00	11000.00		67.00	< 1.0	< 1.0	< 1.0	< 1.0	1100.00	740.00	110	85	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	420.00	560000.00		70.00	< 1.0	< 1.0	< 1.0	< 1.0	830.00	560.00	97	70	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	210.00	511000.00		26.00	< 1.0	< 1.0	< 1.0	< 1.0	150.00	97.00	28	30	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	6.30	454000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	930.00			170.00	< 5.0	< 5.0	< 5.0	< 5.0	2400.00	1600.00	240	180	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	0.00	0.20		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	0.00	6.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	0.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	3.70	20.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	23.00	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	80.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	200.00	120.00	21	3.8	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	130.00	22.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	200.00	130.00	1.7	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	58.00	120.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	51.00	38.00	12	2.4	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	0.00	100.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	270.00			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	440.00	320.00	35	6.2	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	1200.00			170.00	< 10	< 10	< 10	< 10	2800.00	1900.00	280	190	< 10

Project: 173042 Upper Heyford

Client: AA Environmental Ltd	Chemtest Job No.:							17-29152	17-29152	17-29189	17-29189	17-29189	17-29189	17-29189	17-29189	17-29189	17-29189	17-29189
Quotation No.:	Chemtest Sample ID.:							534223	534224	534362	534363	534364	534365	534366	534367	534368	534369	534370	534371
Order No.: 173042	Client Sample Ref.:							VE22S	VE22N	VE19	VE19	VE19	VE19	44N	44E	44S	44W	45B	VE22N
	Client Sample ID.:							VS61	VS62	VS63	VS64	VS65	VS66	VS67	VS68	VS69	VS70	VS71	VS72
	Sample Type:							SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):							1.50	1.40	1.20	1.20	1.20	1.10	1.20	1.20	1.20	1.20	1.40	1.70
	Bottom Depth (m):							1.80	1.70	1.30	1.30	1.30	1.20	1.40	1.40	1.40	1.40		2.00
	Date Sampled:							31-Oct-2017	31-Oct-2017	01-Nov-2017	01-Nov-2017	01-Nov-2017	01-Nov-2017	01-Nov-2017	01-Nov-2017	01-Nov-2017	01-Nov-2017	01-Nov-2017	02-Nov-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	**MAX**	**GW Screening Value**	**Screening Value**												
Moisture	N	2030	%	0.020	26.00			11	15	14	13	14	14	12	11	10	14	14	14
Soil Colour	N	2040		N/A				Beige	Beige	Brown	Brown	Brown	Brown	Brown	Brown	Beige	Beige	Beige	Beige, Brown
Other Material	N	2040		N/A				Stones	Stones, Brick	Stones	Stones, Roots	Stones, Roots	Stones, Roots	Stones, Roots	Stones, Roots	Stones, Roots	Stones	Stones	Stones
Soil Texture	N	2040		N/A				Loam	Loam	Clay	Clay	Clay	Clay	Clay	Clay, Sand	Clay	Clay	Clay	Clay
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	0.00	2.50		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	0.00	120.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	4.20	500.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	74.00	1900.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	370.00	11000.00		< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	420.00	560000.00		< 1.0	< 1.0	< 1.0	6.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	210.00	511000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	6.30	454000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	930.00			< 5.0	< 5.0	< 5.0	8.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	0.00	0.20		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	0.00	6.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	0.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	3.70	20.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	80.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	130.00	22.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	58.00	120.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	0.00	100.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	270.00			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	1200.00			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Project: 173042 Upper Heyford

Client: AA Environmental Ltd	Chemtest Job No.:							17-29189	17-29189	17-29340	17-29340	17-29340	17-29340	17-29340	17-29340	17-29340	17-29340
Quotation No.:	Chemtest Sample ID.:							534372	534373	535076	535077	535078	535079	535080	535081	535082	535083	535084
Order No.: 173042	Client Sample Ref.:							VE22E	VE22W	27N	27E	27W	27S	27B	VE17N	VE16/SW	VTP01	VTP02
	Client Sample ID.:							VS73	VS74	VS75	VS76	VS77	VS78	VS79	VS80	VS81	VS82	VS83
	Sample Type:							SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):							1.60	1.60	0.5	0.5	0.5	0.5	0.7	1.25	1.25	1.0	0.8
	Bottom Depth (m):							1.80	1.70						1.5	1.5	1.2	1.1
	Date Sampled:							02-Nov-2017	02-Nov-2017	02-Nov-2017	02-Nov-2017	02-Nov-2017	02-Nov-2017	02-Nov-2017	02-Nov-2017	02-Nov-2017	03-Nov-2017	03-Nov-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	**MAX**	**GW Screening Value**	**Screening Value**											
Moisture	N	2030	%	0.020	26.00			11	12	11	11	12	11	11	11	10	11	9.3
Soil Colour	N	2040		N/A				Beige	Beige	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Beige	Beige
Other Material	N	2040		N/A				Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A				Clay	Clay	Loam	Loam	Clay	Clay	Clay	Loam	Clay	Clay	Sand
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	0.00	2.50		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	0.00	120.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	4.20	500.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	74.00	1900.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	370.00	11000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	420.00	560000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	210.00	511000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	6.30	454000.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	930.00			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	0.00	0.20		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	0.00	6.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	0.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	3.70	20.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	80.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	130.00	22.00		< 1.0	< 1.0	6.7	7.0	11	5.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	58.00	120.00		< 1.0	< 1.0	< 1.0	16	18	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	0.00	100.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	270.00			< 5.0	< 5.0	6.7	23	29	5.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	1200.00			< 10	< 10	< 10	23	29	< 10	< 10	< 10	< 10	< 10	< 10

Project: 173042 Upper Heyford

Client: AA Environmental Ltd	Chemtest Job No.:							17-29340	17-29340	17-29340	17-29340
Quotation No.:	Chemtest Sample ID.:							535085	535086	535087	535088
Order No.: 173042	Client Sample Ref.:							VTP03	VTP04	VTP05	VTP06
	Client Sample ID.:							VS84	VS85	VS86	VS87
	Sample Type:							SOIL	SOIL	SOIL	SOIL
	Top Depth (m):							0.7	0.75	1.0	0.6
	Bottom Depth (m):							1.2	1.0	1.2	0.8
	Date Sampled:							03-Nov-2017	03-Nov-2017	03-Nov-2017	03-Nov-2017
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	**MAX**	**GW Screening Value**	**Screening Value**				
Moisture	N	2030	%	0.020	26.00			12	19	9.8	9.9
Soil Colour	N	2040		N/A				Beige	Beige	Beige	Brown
Other Material	N	2040		N/A				Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A				Loam	Loam	Sand	Sand
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	0.00	2.50		< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	0.00	120.00		< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	4.20	500.00		< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	74.00	1900.00		< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	370.00	11000.00		< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	420.00	560000.00		< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	210.00	511000.00		< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	6.30	454000.00		< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	930.00			< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	0.00	0.20		< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	0.00	6.00		< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	0.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	3.70	20.00		< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	80.00	30.00		< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	130.00	22.00		< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	58.00	120.00		< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	0.00	100.00		< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	270.00			< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	1200.00			< 10	< 10	< 10	< 10