



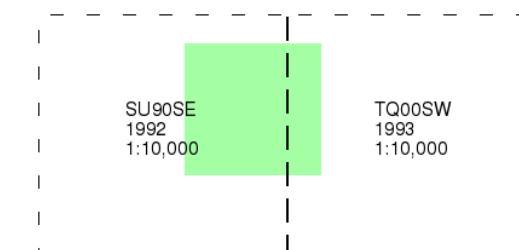
Ordnance Survey Plan

Published 1992 - 1993

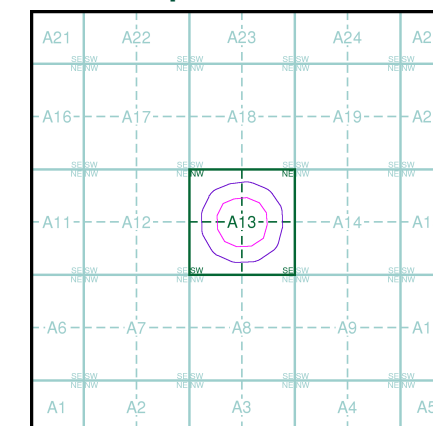
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

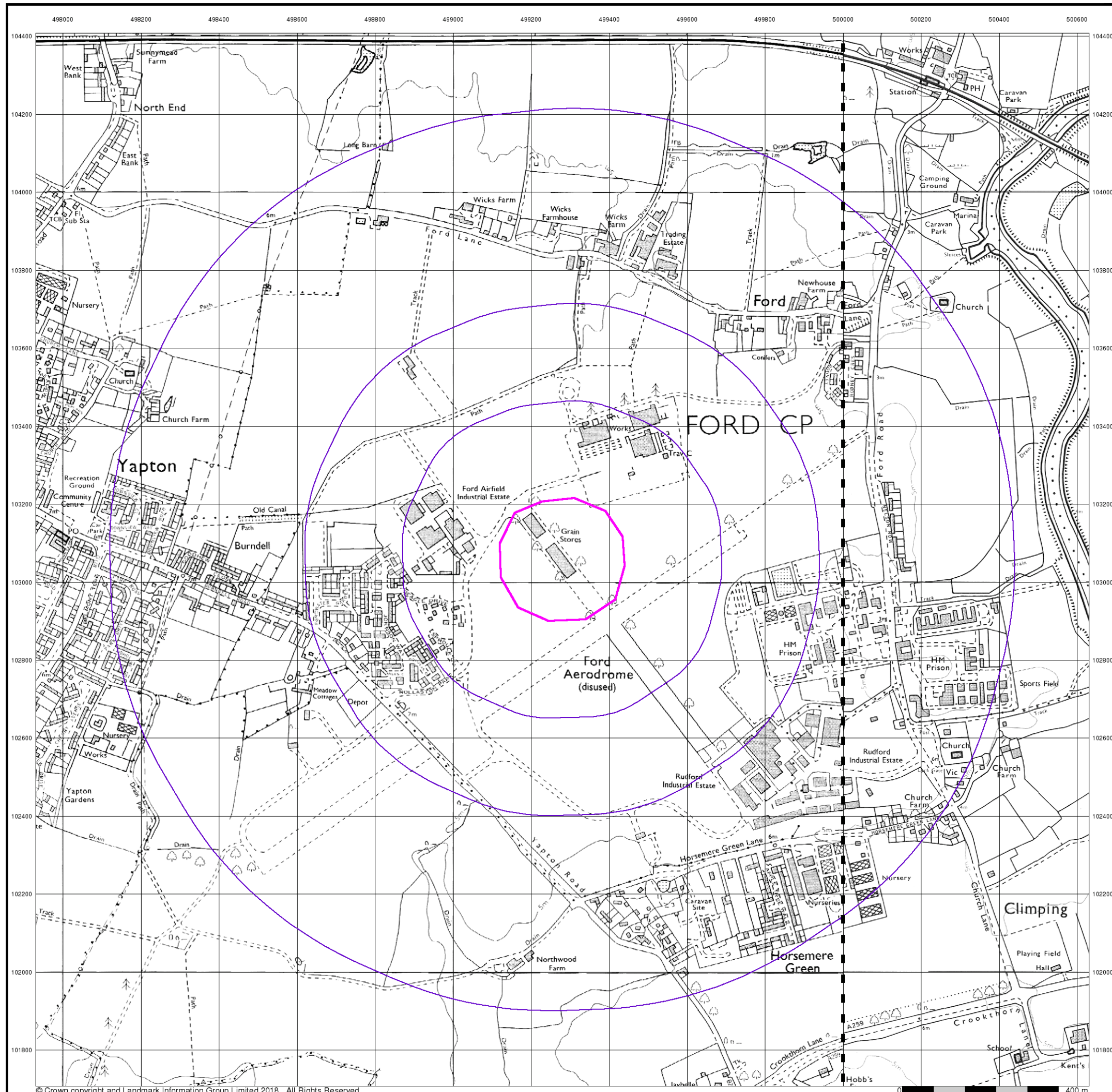
Order Number: 171435319_1_1
Customer Ref: 29228
National Grid Reference: 499280, 103060
Slice: A
Site Area (Ha): 8.11
Search Buffer (m): 1000

Site Details

Ford Airfield, Ford Road, ARUNDEL, BN18 0FL



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk





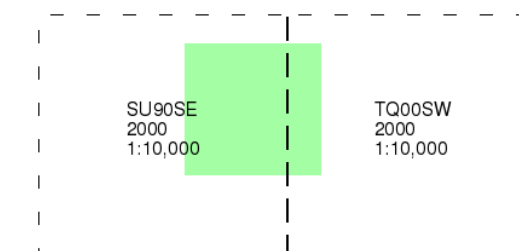
10k Raster Mapping

Published 2000

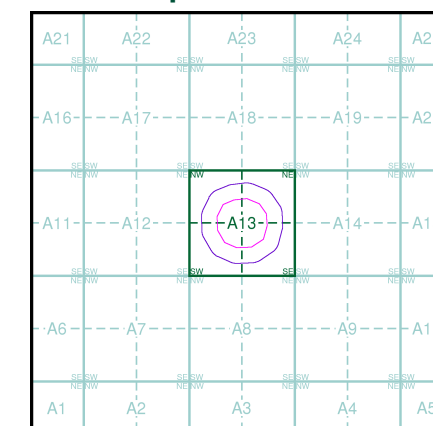
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 171435319_1_1
Customer Ref: 29228
National Grid Reference: 499280, 103060
Slice: A
Site Area (Ha): 8.11
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Site Details

Ford Airfield, Ford Road, ARUNDEL, BN18 0FL

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk





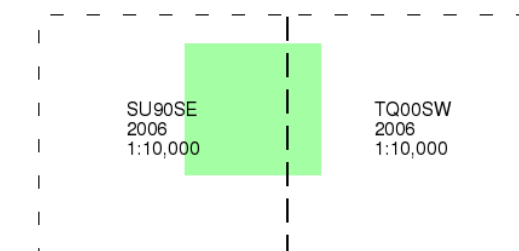
10k Raster Mapping

Published 2006

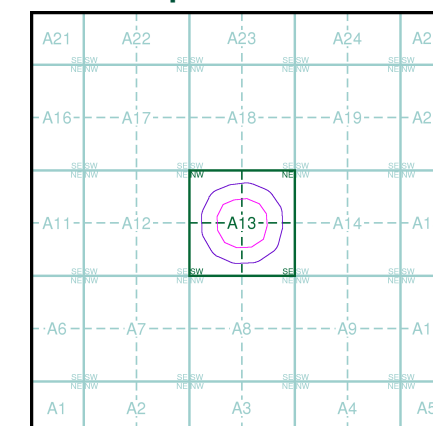
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

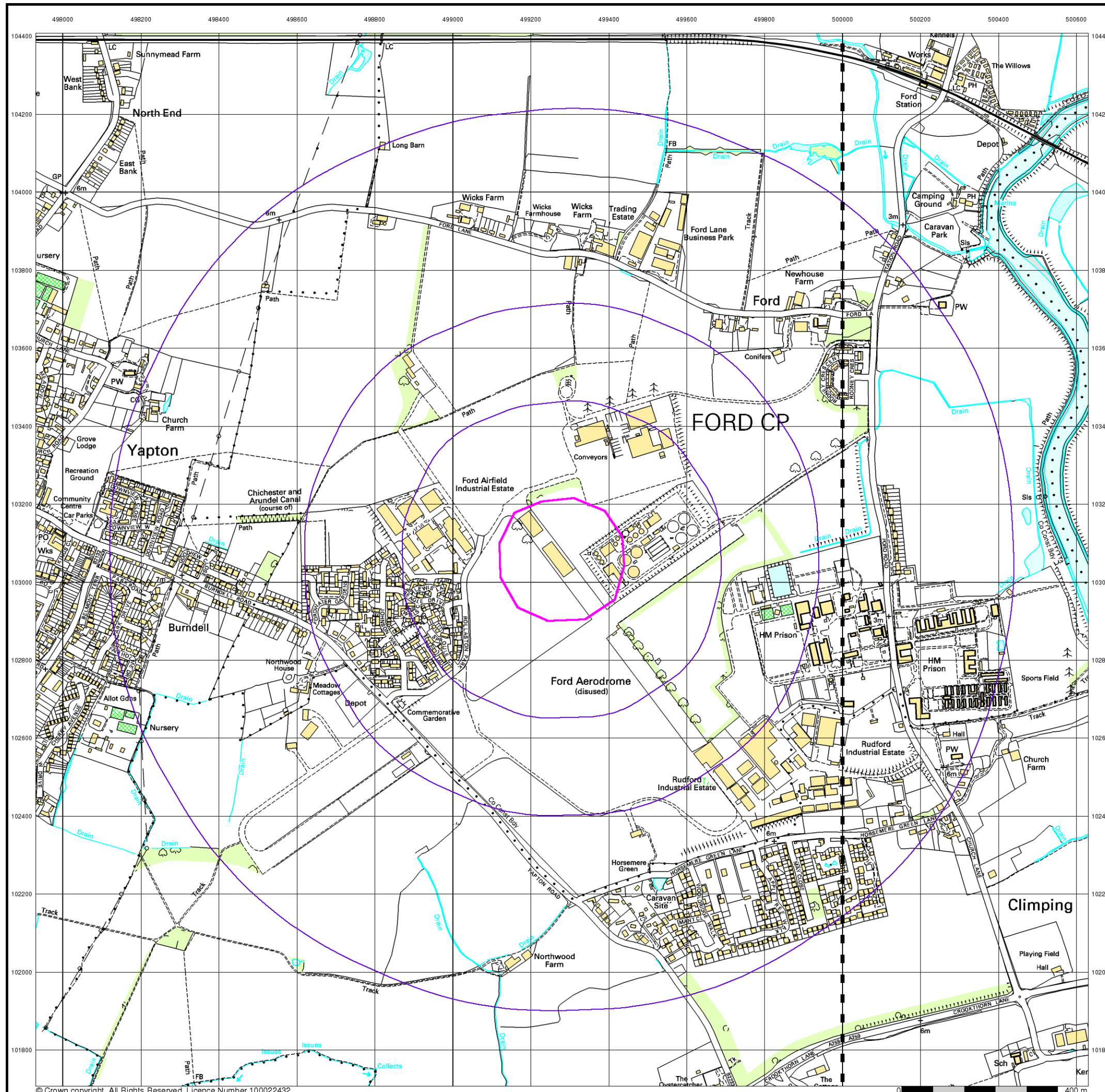
Order Number: 171435319_1_1
Customer Ref: 29228
National Grid Reference: 499280, 103060
Slice: A
Site Area (Ha): 8.11
Search Buffer (m): 1000

Site Details

Ford Airfield, Ford Road, ARUNDEL, BN18 0FL

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
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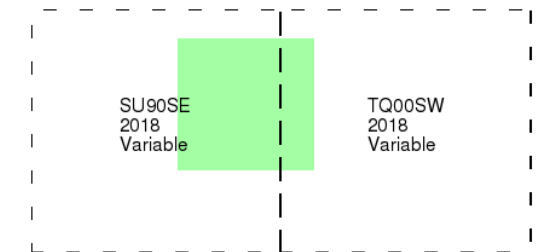
VectorMap Local

Published 2018

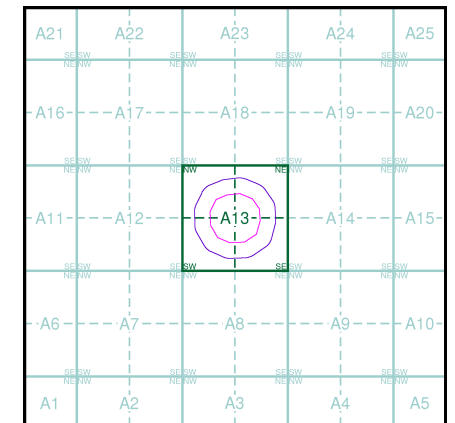
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 171435319_1_1
Customer Ref: 29228
National Grid Reference: 499280, 103060
Slice: A
Site Area (Ha): 8.11
Search Buffer (m): 1000

Site Details

Ford Airfield, Ford Road, ARUNDEL, BN18 0FL

Landmark
INFORMATION GROUP

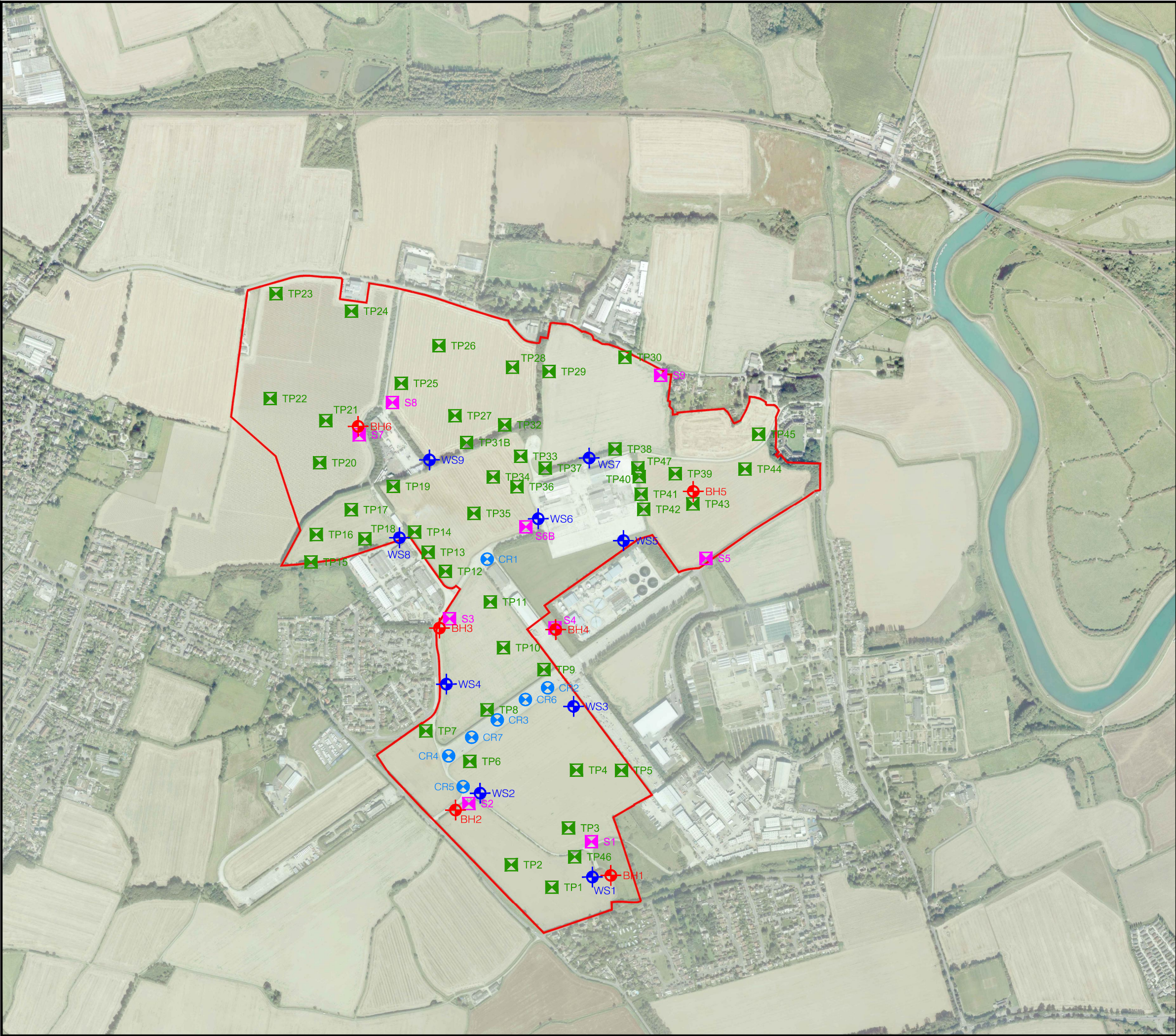
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk





APPENDIX D

EXPLORATORY HOLE LOGS AND CHEMICAL TEST DATA



LEGEND

Site Boundary

Cable Percussion Borehole Location

Window Sample Location

Trial Pit Location

Infiltration Test Location

Coring of Runway

Rev.

Date

Amendment

Drawn

Chkd.

Appd.

RSK

18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT
United Kingdom

Tel: +44 (0) 1442 437500
Fax: +44 (0) 1442 437550
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client

REDROW HOMES LIMITED AND
WATES DEVELOPMENT LIMITED

Project Title

FORD AIRFIELD

Drawing Title

EXPLORATORY HOLE
LOCATION PLAN

Drawn

AP

Date

19.10.18

Checked

AT

Date

19.10.18

Approved

AT

Date

19.10.18

Scale

1:10000

Orig Size

A3

Dimensions

m

Project No.

29228 - R01(00)

Drawing File

29228 - (R01-00) Fig 4.dwg

Drawing No.

FIGURE 4

Rev.

P1

Scale 1 : 10,000

0

100

200

300

400

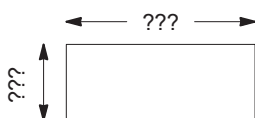
500m

ARUN DISTRICT COUNCIL F/5/20/PL

Contract: Ford Airfield			Client: Wates / Redrow		Trial Pit: TP39
Contract Ref: 29228	Start: 21.08.18 End: 21.08.18	Ground Level: 5.65	National Grid Co-ordinate: E:499676.7 N:103425.2		Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30	ES1	ES	c _u =81			MADE GROUND: Dark brow slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to medium flint.	(0.30)	
						MADE GROUND: Dark brown and black gravelly medium to coarse SAND. Gravel is subangular to subrounded fine to medium flint, ash and clinker.	0.30	
						Firm friable brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to medium flint. (BRICKEARTH)	0.40	
1.00	D1	D				. . . Becomes firm at 1.00 m bgl	(1.20)	
1.50		V				. . . Becomes stiff at 1.50 m bgl	1.60	
1.60	D2	D				Stiff orange brown with light brown and dark orange brown mottled sandy CLAY. Sand is medium. (BRICKEARTH)		
2.00	D3	D					(1.00)	
2.70	B1	B				Structureless CHALK recovered s off white slightly clayey sandy GRAVEL. Gravel is subrounded fine to coarse with frequent cobbles chalk with occasional flint. Chalk is estimated moderately strong medium density. (Grade Dc) (WHITE CHALK SUBGROUP)	2.60	
							(0.40)	
						Trial pit terminated at 3.00 m bgl.	3.00	

Plan (Not to Scale)



General Remarks

1. UXO scan performed from ground level.
2. Trial pit remained stable.
3. No groundwater encountered.
4. Backfilled with arisings.
5. Where no hand vane results were obtained, consistency term is the engineers field observation.

All dimensions in metres

Scale: **1:25**

Method

Used: **Machine dug**

Plant

Used:

JCB-3CX

Logged

By:

ADenton

Checked

By:

AT



Contract: Ford Airfield		Client: Wates / Redrow		Trial Pit: TP40
Contract Ref: 29228	Start: 22.08.18 End: 22.08.18	Ground Level: 6.43	National Grid Co-ordinate: E:499579.9 N:103417.4	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	ES1	ES				MADE GROUND: Dark brown slightly gravelly medium to coarse SAND. Gravel is subangular to subrounded fine to medium flint, brick and concrete.	0.20	
0.50	ES2	ES				MADE GROUND: Brown gravelly slightly clayey medium to coarse SAND. Gravel is subangular to subrounded fine to coarse brick, concrete and flint. ... Frequent plastic, tape, wrapping tape, concrete blocks and metal nails.	(1.40)	
1.00	ES3	ES						
1.40	ES4	ES					1.60	
Trial pit terminated at 1.60 m bgl.								

Plan (Not to Scale) 		General Remarks 1. UXO scan performed from ground level. 2. Trial pit remained stable. 3. No groundwater encountered. 4. Backfilled with arisings. 5. Where no hand vane results were obtained, consistency term is the engineers field observation.	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: ADenton		Checked By: AT	
Scale: 1:25			

Contract: Ford Airfield			Client: Wates / Redrow		Trial Pit: TP41
Contract Ref: 29228	Start: 22.08.18 End: 22.08.18	Ground Level: 6.45	National Grid Co-ordinate: E:499585.2 N:103370.4		Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30	ES1	ES				MADE GROUND: Brown slightly gravelly fine to medium SAND. Gravel is subangular to subrounded fine to medium flint, brick, and chalk.	0.20	
0.70	ES2	ES				MADE GROUND: Light brown gravelly clayey fine to coarse SAND. Gravel is subangular fine to coarse with cobbles of brick, flint and concrete. ... Frequent wood, ash, plastic and chalk.	(1.80)	
1.40	ES3	ES						
1.80	ES4	ES						
						Trial pit terminated at 2.00 m bgl.	2.00	

Plan (Not to Scale)		General Remarks			
		- UXO scan performed from ground level. - Trial pit remained stable. - No groundwater encountered. - Backfilled with arisings. - Where no hand vane results were obtained, consistency term is the engineers field observation.			
		All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: ADenton	Checked By: AT		

Contract: Ford Airfield		Client: Wates / Redrow		Trial Pit: TP42
Contract Ref: 29228	Start: 22.08.18 End: 22.08.18	Ground Level: 6.54	National Grid Co-ordinate: E:499592.0 N:103329.9	Sheet: 1 of 1

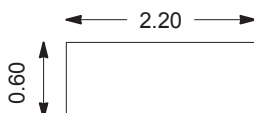
Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30	ES1	ES				MADE GROUND: Brown slightly gravelly fine to medium SAND: Gravel is subangular to subrounded fine to medium brick and chalk.	0.20	
0.70	ES2	ES				MADE GROUND: Light brown gravelly sandy CLAY. Gravel is subangular to subrounded fine to coarse with cobbles of brick, flint, concrete, ash, clinker and frequent plastic and cloth.	(1.30)	
1.40	ES3	ES					1.50	
						Trial pit terminated at 1.50 m bgl.		

Plan (Not to Scale) 		General Remarks 1. UXO scan performed from ground level. 2. Trial pit remained stable. 3. No groundwater encountered. 4. Backfilled with arisings. 5. Where no hand vane results were obtained, consistency term is the engineers field observation.	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: ADenton		Checked By: AT	
Scale: 1:25			

Contract: Ford Airfield			Client: Wates / Redrow		Trial Pit: S5
Contract Ref: 29228	Start: 20.08.18 End: 20.08.18	Ground Level: 6.71	National Grid Co-ordinate: E:499758.8 N:103198.6		Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						TOPSOIL: Brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to medium flint.	0.25	
0.50	ES1	ES				Firm friable brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to medium flint. (BRICKEARTH)		
1.00	D1	D				. . . Becomes firm at 1.00 m bgl		
1.50	D2	D				. . . Becomes stiff at 1.50 m bgl		
1.50		V	$c_u=76$					
2.00	D3	D						
2.50	B1	B				Stiff orangish brown gravelly fine to medium SAND. Gravel is subangular to subrounded fine to medium flint. (BRICKEARTH)	2.40	
							(0.40)	
						Structureless CHALK recovered as sandy clayey GRAVEL. Gravel is subangular to subrounded fine to coarse, occasional cobbles of flint and chalk. Chalk is estimated medium dense, moderately strong. (Grade Dc) (WHITE CHALK SUBGROUP)	2.80	
						Soakaway pit terminated at 2.90 m bgl.	2.90	

Plan (Not to Scale)



General Remarks

1. UXO scan undertaken from ground level
2. Trial pit remained stable
3. No groundwater encountered
4. Backfilled with arisings

All dimensions in metres

Scale: **1:25**

Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: ADenton	Checked By: AT	
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WINDOW SAMPLE LOG

Contract: Ford Airfield			Client: Wates / Redrow		Window Sample: WS5
Contract Ref: 29228	Start: 07.08.18 End: 07.08.18	Ground Level: 6.84	National Grid Co-ordinate: E:499537.8 N:103246.0		Sheet: 1 of 1

Progress		Samples / Tests			Water Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results				
	0.20	ES1	ES			TOPSOIL: Light brown slightly gravelly fine to medium sandy CLAY.	0.30	
	0.60	ES2	ES			Firm friable light orangish brown slightly gravelly slightly clayey fine to medium sandy CLAY. Gravel is subangular to subrounded fine flint. (BRICEARTH)	(0.90)	
	1.20-1.65	1	SPT	N=8		Firm orange brown with black inclusions slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to medium flint. (BRICEARTH)	1.20 1.40	
	2.00-2.45	2	SPT	N=28		Firm light brown and greyish brown mottled sandy CLAY. (BRICEARTH)	1.70	
	2.00	V		c _u =160		Firm to stiff orange brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to medium flint. (BRICEARTH)	(0.50) 2.20	
	2.30	D2	D			Loose to medium dense orange brown SAND with rare fine to medium flint. (BRICEARTH)	(1.40)	
	3.00-3.45	3	SPT	N=9				
	3.60	D3	D			Structureless CHALK of sandy clayey GRAVEL. Gravel is subangular to subrounded fine to medium chalk. Chalk is moderately weak low density. (Grade Dc) (WHITE CHALK SUBGROUP) ... flint band at 3.60 m bgl	3.60	
	4.00-4.45	4	SPT	N=30				
	4.50	D4	D				(1.85)	
	5.00-5.45	5	SPT	N=17				
						Window sample hole terminated at 5.45 m bgl	5.45	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)				
						1. Inspection pit hand dug to 1.20 m bgl. 2. Standpipe installed to 3.50 m bgl; 0.50 m plain with bentonite, 3.00 m slotted with 10 mm gravel. 3. No groundwater encountered.			
Method Used: Inspection pit + Tracked window						All dimensions in metres		Scale: 1:33	
Plant Used: Unknown			Drilled By: Trevor Cannon		Logged By: ADenton		Checked By: AT		

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 18/07181
Issue Number: 1

Date: 20 September, 2018

Client: RSK Environment Ltd Hemel
18 Frogmore Road
Hemel Hempstead
Hertfordshire
UK
HP3 9RT

Project Manager: Andrew Denton/Andrew Tranter/Nigel Austin
Project Name: Ford AF
Project Ref: 29228
Order No: N/A
Date Samples Received: 31/08/18
Date Instructions Received: 07/09/18
Date Analysis Completed: 20/09/18

Prepared by:



Melanie Marshall
Laboratory Coordinator

Approved by:



Danielle Brierley
Client Manager

Envirolab Job Number: 18/07181

Client Project Name: Ford AF

Client Project Ref: 29228

Lab Sample ID	18/07181/1	18/07181/4	18/07181/5	18/07181/6	18/07181/8	18/07181/10	18/07181/11	18/07181/12	Units	Method ref
Client Sample No		2	1	1	1	2		1		
Client Sample ID	S5	TP1	TP2	TP7	TP39	TP43	TP44	TP45		
Depth to Top	0.50	0.60	0.40	0.20	0.30	0.60	0.50	0.30		
Depth To Bottom										
Date Sampled	20-Aug-18	20-Aug-18	20-Aug-18	20-Aug-18	21-Aug-18	21-Aug-18	21-Aug-18	20-Aug-18		
Sample Type	Soil	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil	Soil - ES		
Sample Matrix Code	4	4	5E	4AE	4AE	4AE	4AE	4AE		
% Stones >10mm _A	<0.1	<0.1	<0.1	<0.1	10.3	3.3	<0.1	<0.1	% w/w	A-T-044
Asbestos in soil _A [#]	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD		Subcon Chemtest
pH _D ^{M#}	6.98	7.36	7.12	7.48	7.76	7.57	7.63	7.23	pH	A-T-031s
Total Organic Carbon _D ^{M#}	0.97	0.86	-	-	9.80	0.76	0.71	-	% w/w	A-T-032s
Arsenic _D ^{M#}	2	2	2	3	27	3	5	6	mg/kg	A-T-024s
Cadmium _D ^{M#}	1.0	1.0	1.0	1.1	2.3	1.2	1.2	1.3	mg/kg	A-T-024s
Copper _D ^{M#}	9	9	10	12	152	12	8	12	mg/kg	A-T-024s
Chromium _D ^{M#}	24	24	27	26	30	27	22	27	mg/kg	A-T-024s
Lead _D ^{M#}	25	16	14	24	410	18	19	20	mg/kg	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	mg/kg	A-T-024s
Nickel _D ^{M#}	15	17	18	17	49	18	19	21	mg/kg	A-T-024s
Selenium _D [#]	3	1	<1	2	<1	<1	2	1	mg/kg	A-T-024s
Zinc _D ^{M#}	46	42	41	53	471	52	50	55	mg/kg	A-T-024s

Envirolab Job Number: 18/07181

Client Project Name: Ford AF

Client Project Ref: 29228

Lab Sample ID	18/07181/1	18/07181/4	18/07181/5	18/07181/6	18/07181/8	18/07181/10	18/07181/11	18/07181/12	Units	Method ref
Client Sample No		2	1	1	1	2		1		
Client Sample ID	S5	TP1	TP2	TP7	TP39	TP43	TP44	TP45		
Depth to Top	0.50	0.60	0.40	0.20	0.30	0.60	0.50	0.30		
Depth To Bottom										
Date Sampled	20-Aug-18	20-Aug-18	20-Aug-18	20-Aug-18	21-Aug-18	21-Aug-18	21-Aug-18	20-Aug-18		
Sample Type	Soil	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil	Soil - ES		
Sample Matrix Code	4	4	5E	4AE	4AE	4AE	4AE	4AE		
OCP+OPP Combined Pesticides										
alpha-Hexachlorocyclohexane (HCH) _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
gamma-Hexachlorocyclohexane (HCH / Lindane) _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
beta-Hexachlorocyclohexane (HCH) _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
delta-Hexachlorocyclohexane (HCH) _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Heptachlor _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Aldrin _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Heptachlor Epoxide _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
trans-Chlordane (Gamma) _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
cis-Chlordane (Alpha) _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Endosulphan I (Alpha) _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Endosulphan II (Beta) _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Endosulphan Sulphate _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
p,p-DDD (TDE) (4,4) _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
p,p-DDE (4,4) _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
p,p-DDT (4,4) _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Dieldrin _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Endrin _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Endrin Aldehyde _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Endrin Ketone _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Methoxychlor _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Demeton-O _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Demeton-S _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Phorate _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Disulfoton _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Fenthion _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Trichloronate _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Prothiofos (Tokuthion) _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Fensulphothion _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest

Envirolab Job Number: 18/07181

Client Project Name: Ford AF

Client Project Ref: 29228

Lab Sample ID	18/07181/1	18/07181/4	18/07181/5	18/07181/6	18/07181/8	18/07181/10	18/07181/11	18/07181/12	Units	Method ref
Client Sample No		2	1	1	1	2		1		
Client Sample ID	S5	TP1	TP2	TP7	TP39	TP43	TP44	TP45		
Depth to Top	0.50	0.60	0.40	0.20	0.30	0.60	0.50	0.30		
Depth To Bottom										
Date Sampled	20-Aug-18	20-Aug-18	20-Aug-18	20-Aug-18	21-Aug-18	21-Aug-18	21-Aug-18	20-Aug-18		
Sample Type	Soil	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil	Soil - ES		
Sample Matrix Code	4	4	5E	4AE	4AE	4AE	4AE	4AE		
Sulprofos _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Azinphos-methyl _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest
Coumaphos _A	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2	mg/kg	Subcon Chemtest

Envirolab Job Number: 18/07181

Client Project Name: Ford AF

Client Project Ref: 29228

Lab Sample ID	18/07181/1	18/07181/4	18/07181/5	18/07181/6	18/07181/8	18/07181/10	18/07181/11	18/07181/12	Units	Method ref
Client Sample No		2	1	1	1	2		1		
Client Sample ID	S5	TP1	TP2	TP7	TP39	TP43	TP44	TP45		
Depth to Top	0.50	0.60	0.40	0.20	0.30	0.60	0.50	0.30		
Depth To Bottom										
Date Sampled	20-Aug-18	20-Aug-18	20-Aug-18	20-Aug-18	21-Aug-18	21-Aug-18	21-Aug-18	20-Aug-18		
Sample Type	Soil	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil	Soil - ES		
Sample Matrix Code	4	4	5E	4AE	4AE	4AE	4AE	4AE		
PAH-16MS										
Acenaphthene _A ^{M#}	0.07	<0.01	<0.01	0.03	0.13	<0.01	<0.01	<0.01	mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	0.01	<0.01	<0.01	0.01	0.25	<0.01	<0.01	<0.01	mg/kg	A-T-019s
Anthracene _A ^{M#}	0.19	<0.02	<0.02	0.09	0.91	<0.02	<0.02	<0.02	mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.78	<0.04	<0.04	0.46	5.71	<0.04	0.10	<0.04	mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.75	<0.04	<0.04	0.47	5.87	<0.04	0.12	<0.04	mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.79	<0.05	<0.05	0.53	5.98	<0.05	0.12	<0.05	mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.39	<0.05	<0.05	0.26	3.05	<0.05	0.08	<0.05	mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	0.33	<0.07	<0.07	0.21	2.11	<0.07	<0.07	<0.07	mg/kg	A-T-019s
Chrysene _A ^{M#}	0.92	<0.06	<0.06	0.60	5.75	<0.06	0.14	<0.06	mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	0.09	<0.04	<0.04	0.06	0.60	<0.04	<0.04	<0.04	mg/kg	A-T-019s
Fluoranthene _A ^{M#}	1.97	<0.08	<0.08	1.12	10.8	<0.08	0.24	<0.08	mg/kg	A-T-019s
Fluorene _A ^{M#}	0.05	<0.01	<0.01	0.03	0.13	<0.01	<0.01	<0.01	mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.46	<0.03	<0.03	0.29	3.71	<0.03	0.08	<0.03	mg/kg	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	0.08	<0.03	<0.03	<0.03	mg/kg	A-T-019s
Phenanthrene _A ^{M#}	1.05	<0.03	<0.03	0.56	3.17	<0.03	0.12	<0.03	mg/kg	A-T-019s
Pyrene _A ^{M#}	1.65	<0.07	<0.07	0.97	9.94	<0.07	0.21	<0.07	mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	9.50	<0.08	<0.08	5.69	58.2	<0.08	1.21	<0.08	mg/kg	A-T-019s
TPH Banded 6 with CLEAN UP + ID										
>C6-C8 _A ^{M#}	-	-	<5	-	-	-	-	-	mg/kg	A-T-007s
>C8-C10 _A ^{M#}	-	-	<1	-	-	-	-	-	mg/kg	A-T-007s
>C10-C12 _A ^{M#}	-	-	<1	-	-	-	-	-	mg/kg	A-T-007s
>C12-C16 _A ^{M#}	-	-	2	-	-	-	-	-	mg/kg	A-T-007s
>C16-C21 _A ^{M#}	-	-	<2	-	-	-	-	-	mg/kg	A-T-007s
>C21-C28 _A ^{M#}	-	-	<1	-	-	-	-	-	mg/kg	A-T-007s
>C28-C40 _A [#]	-	-	<1	-	-	-	-	-	mg/kg	A-T-007s
TPH ID (for FID characterisations) _A	-	-	Unknown profile	-	-	-	-	-		A-T-007s
Total TPH Banded 6 with CLEAN UP + ID _A	-	-	<5	-	-	-	-	-	mg/kg	A-T-007s

Envirolab Job Number: 18/07181

Client Project Name: Ford AF

Client Project Ref: 29228

Lab Sample ID	18/07181/1	18/07181/4	18/07181/5	18/07181/6	18/07181/8	18/07181/10	18/07181/11	18/07181/12	Units	Method ref
Client Sample No		2	1	1	1	2		1		
Client Sample ID	S5	TP1	TP2	TP7	TP39	TP43	TP44	TP45		
Depth to Top	0.50	0.60	0.40	0.20	0.30	0.60	0.50	0.30		
Depth To Bottom										
Date Sampled	20-Aug-18	20-Aug-18	20-Aug-18	20-Aug-18	21-Aug-18	21-Aug-18	21-Aug-18	20-Aug-18		
Sample Type	Soil	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil	Soil - ES		
Sample Matrix Code	4	4	5E	4AE	4AE	4AE	4AE	4AE		
TPH CWG										
Ali >C5-C6 _A [#]	-	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
Ali >C6-C8 _A [#]	-	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
Ali >C8-C10 _A ^{M#}	-	<1	-	-	-	-	-	-	mg/kg	A-T-055s
Ali >C10-C12 _A ^{M#}	-	<1	-	-	-	-	-	-	mg/kg	A-T-055s
Ali >C12-C16 _A ^{M#}	-	<1	-	-	-	-	-	-	mg/kg	A-T-055s
Ali >C16-C21 _A ^{M#}	-	<1	-	-	-	-	-	-	mg/kg	A-T-055s
Ali >C21-C35 _A	-	2	-	-	-	-	-	-	mg/kg	A-T-055s
Total Aliphatics >C5-C35 _A	-	2	-	-	-	-	-	-	mg/kg	A-T-055s
Aro >C5-C7 _A [#]	-	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
Aro >C7-C8 _A [#]	-	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
Aro >C8-C10 _A ^{M#}	-	<1	-	-	-	-	-	-	mg/kg	A-T-055s
Aro >C10-C12 _A ^{M#}	-	<1	-	-	-	-	-	-	mg/kg	A-T-055s
Aro >C12-C16 _A	-	<1	-	-	-	-	-	-	mg/kg	A-T-055s
Aro >C16-C21 _A ^{M#}	-	<1	-	-	-	-	-	-	mg/kg	A-T-055s
Aro >C21-C35 _A ^{M#}	-	6	-	-	-	-	-	-	mg/kg	A-T-055s
Total Aromatics >C5-C35 _A	-	6	-	-	-	-	-	-	mg/kg	A-T-055s
TPH (Ali & Aro >C5-C35) _A	-	8	-	-	-	-	-	-	mg/kg	A-T-055s
BTEX - Benzene _A [#]	-	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - Toluene _A [#]	-	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	-	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	-	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - o Xylene _A [#]	-	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
MTBE _A [#]	-	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s

Envirolab Job Number: 18/07181

Client Project Name: Ford AF

Client Project Ref: 29228

Lab Sample ID	18/07181/13	18/07181/14	18/07181/15	18/07181/16	18/07181/17	18/07181/18	18/07181/19	18/07181/20	Units	Method ref
Client Sample No										
Client Sample ID	BH1	BH2	BH2	BH4	BH4	BH3	BH3	BH6		
Depth to Top	5.60	4.00	7.00	1.00	6.80	2.75	12.00	1.00		
Depth To Bottom										
Date Sampled	13-Aug-18	14-Aug-18	14-Aug-18	17-Aug-18	17-Aug-18	16-Aug-18	16-Aug-18	21-Aug-18		
Sample Type	Solid	Soil	Solid	Soil	Solid	Soil	Solid	Soil		
Sample Matrix Code	7	6A	7	3A	7	5A	7	4A		
% Stones >10mm _A	<0.1	4.3	<0.1	<0.1	<0.1	6.5	<0.1	14.5	% w/w	A-T-044
pH _D ^{M#}	8.83	8.39	8.57	7.67	8.88	8.10	9.05	8.08	pH	A-T-031s
pH BRE _D ^{M#}	8.83	8.39	8.57	7.67	8.88	8.10	9.05	8.08	pH	A-T-031s
Sulphate BRE (water sol 2:1) _D ^{M#}	13	<10	47	<10	<10	<10	12	12	mg/l	A-T-026s

Envirolab Job Number: 18/07181

Client Project Name: Ford AF

Client Project Ref: 29228

Lab Sample ID	18/07181/21	18/07181/22							Units	Method ref
Client Sample No										
Client Sample ID	BH6	BH6								
Depth to Top	3.00	5.00								
Depth To Bottom										
Date Sampled	21-Aug-18	22-Aug-18								
Sample Type	Soil	Solid								
Sample Matrix Code	5A	7								
% Stones >10mm _A	7.8	<0.1							% w/w	A-T-044
pH _D ^{M#}	8.14	8.93							pH	A-T-031s
pH BRE _D ^{M#}	8.14	8.93							pH	A-T-031s
Sulphate BRE (water sol 2:1) _D ^{M#}	<10	<10							mg/l	A-T-026s

REPORT NOTES

General:

This report shall not be reproduced, except in full, without written approval from Envirolab.

All samples contained within this report, and any received with the same delivery, will be disposed of one month after the date of this report.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed.

Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 18/06423
Issue Number: 1
Date: 23 August, 2018

Client: RSK Environment Ltd Hemel
18 Frogmore Road
Hemel Hempstead
Hertfordshire
UK
HP3 9RT

Project Manager: Andrew Denton/Andrew Tranter/Duncan Sharp
Project Name: Ford Airfield
Project Ref: 29228
Order No: N/A
Date Samples Received: 10/08/18
Date Instructions Received: 10/08/18
Date Analysis Completed: 23/08/18

Prepared by:



Melanie Marshall
Laboratory Coordinator

Approved by:



Iain Haslock
Analytical Consultant

Envirolab Job Number: 18/06423

Client Project Name: Ford Airfield

Client Project Ref: 29228

Lab Sample ID	18/06423/1	18/06423/2	18/06423/3	18/06423/6	18/06423/20	18/06423/27	18/06423/28	18/06423/30	Units	Method ref
Client Sample No										
Client Sample ID	WS1	WS1	WS1	WS2	WS4	WS5	WS5	WS5		
Depth to Top	0.2	0.8	1.5	0.5	0.4	0.2	0.6	2.3		
Depth To Bottom										
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - D		
Sample Matrix Code	4A	3	3		4A	4A	3	1A		
% Stones >10mm _A	6.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	6.2	% w/w	A-T-044
pH _D ^{M#}	7.17	-	-	-	7.45	7.25	-	-	pH	A-T-031s
pH BRE _D ^{M#}	-	7.98	8.03	-	-	-	7.63	7.73	pH	A-T-031s
Sulphate BRE (water sol 2:1) _D ^{M#}	-	<10	<10	-	-	-	<10	<10	mg/l	A-T-026s
Arsenic _D ^{M#}	2	-	-	-	4	9	-	-	mg/kg	A-T-024s
Cadmium _D ^{M#}	<0.5	-	-	-	<0.5	1.2	-	-	mg/kg	A-T-024s
Copper _D ^{M#}	7	-	-	-	7	25	-	-	mg/kg	A-T-024s
Chromium _D ^{M#}	19	-	-	-	22	40	-	-	mg/kg	A-T-024s
Lead _D ^{M#}	13	-	-	-	14	40	-	-	mg/kg	A-T-024s
Mercury _D	<0.17	-	-	-	<0.17	<0.17	-	-	mg/kg	A-T-024s
Nickel _D ^{M#}	11	-	-	-	12	27	-	-	mg/kg	A-T-024s
Selenium _D ^{M#}	<1	-	-	-	<1	<1	-	-	mg/kg	A-T-024s
Zinc _D ^{M#}	33	-	-	-	36	134	-	-	mg/kg	A-T-024s

Envirolab Job Number: 18/06423

Client Project Name: Ford Airfield

Client Project Ref: 29228

Lab Sample ID	18/06423/1	18/06423/2	18/06423/3	18/06423/6	18/06423/20	18/06423/27	18/06423/28	18/06423/30	Units	Method ref
Client Sample No										
Client Sample ID	WS1	WS1	WS1	WS2	WS4	WS5	WS5	WS5		
Depth to Top	0.2	0.8	1.5	0.5	0.4	0.2	0.6	2.3		
Depth To Bottom										
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - D		
Sample Matrix Code	4A	3	3		4A	4A	3	1A		
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	-	-	-	NAD	NAD	-	-		A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	N/A	-	-	-	N/A	N/A	-	-		

Envirolab Job Number: 18/06423

Client Project Name: Ford Airfield

Client Project Ref: 29228

Lab Sample ID	18/06423/1	18/06423/2	18/06423/3	18/06423/6	18/06423/20	18/06423/27	18/06423/28	18/06423/30	Units	Method ref
Client Sample No										
Client Sample ID	WS1	WS1	WS1	WS2	WS4	WS5	WS5	WS5		
Depth to Top	0.2	0.8	1.5	0.5	0.4	0.2	0.6	2.3		
Depth To Bottom										
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - D		
Sample Matrix Code	4A	3	3		4A	4A	3	1A		
OCP+OPP Combined Pesticides										
alpha-Hexachlorocyclohexane (HCH) _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
gamma-Hexachlorocyclohexane (HCH / Lindane) _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
beta-Hexachlorocyclohexane (HCH) _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
delta-Hexachlorocyclohexane (HCH) _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Heptachlor _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Aldrin _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Heptachlor Epoxide _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
trans-Chlordane (Gamma) _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
cis-Chlordane (Alpha) _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Endosulphan I (Alpha) _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Endosulphan II (Beta) _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Endosulphan Sulphate _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
p,p-DDD (TDE) (4,4) _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
p,p-DDE (4,4) _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
p,p-DDT (4,4) _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Dieldrin _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Endrin _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Endrin Aldehyde _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Endrin Ketone _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Methoxychlor _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Demeton-O _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Demeton-S _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Phorate _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Disulfoton _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Fenthion _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Trichloronate _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Prothiofos (Tokuthion) _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Fensulphothion _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest

Envirolab Job Number: 18/06423

Client Project Name: Ford Airfield

Client Project Ref: 29228

Lab Sample ID	18/06423/1	18/06423/2	18/06423/3	18/06423/6	18/06423/20	18/06423/27	18/06423/28	18/06423/30	Units	Method ref
Client Sample No										
Client Sample ID	WS1	WS1	WS1	WS2	WS4	WS5	WS5	WS5		
Depth to Top	0.2	0.8	1.5	0.5	0.4	0.2	0.6	2.3		
Depth To Bottom										
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - D		
Sample Matrix Code	4A	3	3		4A	4A	3	1A		
Sulprofos _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Azinphos-methyl _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest
Coumaphos _A	-	-	-	<0.2	<0.2	-	-	-	mg/kg	Subcon Chemtest

Envirolab Job Number: 18/06423

Client Project Name: Ford Airfield

Client Project Ref: 29228

Lab Sample ID	18/06423/1	18/06423/2	18/06423/3	18/06423/6	18/06423/20	18/06423/27	18/06423/28	18/06423/30	Units	Method ref
Client Sample No										
Client Sample ID	WS1	WS1	WS1	WS2	WS4	WS5	WS5	WS5		
Depth to Top	0.2	0.8	1.5	0.5	0.4	0.2	0.6	2.3		
Depth To Bottom										
Date Sampled	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18	07-Aug-18		
Sample Type	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - D		
Sample Matrix Code	4A	3	3		4A	4A	3	1A		
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	-	-	-	<0.01	<0.01	-	-	mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	-	-	-	<0.01	<0.01	-	-	mg/kg	A-T-019s
Anthracene _A ^{M#}	<0.02	-	-	-	<0.02	<0.02	-	-	mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.06	-	-	-	0.06	<0.04	-	-	mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.07	-	-	-	0.08	<0.04	-	-	mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.09	-	-	-	0.09	<0.05	-	-	mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.05	-	-	-	<0.05	<0.05	-	-	mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	-	-	-	<0.07	<0.07	-	-	mg/kg	A-T-019s
Chrysene _A ^{M#}	0.07	-	-	-	0.08	<0.06	-	-	mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	-	-	-	<0.04	<0.04	-	-	mg/kg	A-T-019s
Fluoranthene _A ^{M#}	0.13	-	-	-	0.12	<0.08	-	-	mg/kg	A-T-019s
Fluorene _A ^{M#}	<0.01	-	-	-	<0.01	<0.01	-	-	mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.06	-	-	-	0.05	<0.03	-	-	mg/kg	A-T-019s
Naphthalene _A ^{M#}	<0.03	-	-	-	<0.03	<0.03	-	-	mg/kg	A-T-019s
Phenanthrene _A ^{M#}	0.06	-	-	-	0.06	<0.03	-	-	mg/kg	A-T-019s
Pyrene _A ^{M#}	0.12	-	-	-	0.11	<0.07	-	-	mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	0.71	-	-	-	0.65	<0.08	-	-	mg/kg	A-T-019s
TPH Banded 6 with CLEAN UP + ID										
>C6-C8 _A ^{M#}	-	<5	-	-	-	-	-	-	mg/kg	A-T-007s
>C8-C10 _A ^{M#}	-	<1	-	-	-	-	-	-	mg/kg	A-T-007s
>C10-C12 _A ^{M#}	-	<1	-	-	-	-	-	-	mg/kg	A-T-007s
>C12-C16 _A ^{M#}	-	<2	-	-	-	-	-	-	mg/kg	A-T-007s
>C16-C21 _A ^{M#}	-	20	-	-	-	-	-	-	mg/kg	A-T-007s
>C21-C28 _A ^{M#}	-	12	-	-	-	-	-	-	mg/kg	A-T-007s
>C28-C40 _A [#]	-	6	-	-	-	-	-	-	mg/kg	A-T-007s
TPH ID (for FID characterisations) _A	-	Unknown profile	-	-	-	-	-	-		A-T-007s
Total TPH Banded 6 with CLEAN UP + ID _A	-	38	-	-	-	-	-	-	mg/kg	A-T-007s

Envirolab Job Number: 18/06423

Client Project Name: Ford Airfield

Client Project Ref: 29228

Lab Sample ID	18/06423/32	18/06423/39	18/06423/55	18/06423/56	18/06423/59	18/06423/61			Units	Method ref
Client Sample No										
Client Sample ID	WS5	WS7	WS10	WS10	WS10	WS10				
Depth to Top	4.6	0.2	0.4	0.9	2.4	4.4				
Depth To Bottom		0.40								
Date Sampled	07-Aug-18	07-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18				
Sample Type	Solid	Soil - ES	Soil - ES	Soil - ES	Soil - D	Solid				
Sample Matrix Code	7	4ABE	4A	3	1A	7				
% Stones >10mm _A	<0.1	<0.1	<0.1	<0.1	49.8	<0.1			% w/w	A-T-044
pH _D ^{M#}	-	7.81	7.57	-	-	-			pH	A-T-031s
pH BRE _D ^{M#}	8.54	-	-	7.56	7.91	8.52			pH	A-T-031s
Sulphate BRE (water sol 2:1) _D ^{M#}	<10	-	-	15	<10	<10			mg/l	A-T-026s
Total Organic Carbon _D ^{M#}	-	-	0.81	-	-	-			% w/w	A-T-032s
Arsenic _D ^{M#}	-	5	6	-	-	-			mg/kg	A-T-024s
Cadmium _D ^{M#}	-	0.6	0.5	-	-	-			mg/kg	A-T-024s
Copper _D ^{M#}	-	17	9	-	-	-			mg/kg	A-T-024s
Chromium _D ^{M#}	-	26	24	-	-	-			mg/kg	A-T-024s
Lead _D ^{M#}	-	45	14	-	-	-			mg/kg	A-T-024s
Mercury _D	-	<0.17	<0.17	-	-	-			mg/kg	A-T-024s
Nickel _D ^{M#}	-	16	16	-	-	-			mg/kg	A-T-024s
Selenium _D ^{M#}	-	<1	<1	-	-	-			mg/kg	A-T-024s
Zinc _D ^{M#}	-	56	40	-	-	-			mg/kg	A-T-024s

Envirolab Job Number: 18/06423

Client Project Name: Ford Airfield

Client Project Ref: 29228

Lab Sample ID	18/06423/32	18/06423/39	18/06423/55	18/06423/56	18/06423/59	18/06423/61			Units	Method ref
Client Sample No										
Client Sample ID	WS5	WS7	WS10	WS10	WS10	WS10				
Depth to Top	4.6	0.2	0.4	0.9	2.4	4.4				
Depth To Bottom		0.40								
Date Sampled	07-Aug-18	07-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18				
Sample Type	Solid	Soil - ES	Soil - ES	Soil - ES	Soil - D	Solid				
Sample Matrix Code	7	4ABE	4A	3	1A	7				
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	-	NAD	NAD	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	-	N/A	N/A	-	-	-				

Envirolab Job Number: 18/06423

Client Project Name: Ford Airfield

Client Project Ref: 29228

Lab Sample ID	18/06423/32	18/06423/39	18/06423/55	18/06423/56	18/06423/59	18/06423/61			Units	Method ref
Client Sample No										
Client Sample ID	WS5	WS7	WS10	WS10	WS10	WS10				
Depth to Top	4.6	0.2	0.4	0.9	2.4	4.4				
Depth To Bottom		0.40								
Date Sampled	07-Aug-18	07-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18				
Sample Type	Solid	Soil - ES	Soil - ES	Soil - ES	Soil - D	Solid				
Sample Matrix Code	7	4ABE	4A	3	1A	7				
OCP+OPP Combined Pesticides										
alpha-Hexachlorocyclohexane (HCH) _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
gamma-Hexachlorocyclohexane (HCH / Lindane) _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
beta-Hexachlorocyclohexane (HCH) _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
delta-Hexachlorocyclohexane (HCH) _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Heptachlor _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Aldrin _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Heptachlor Epoxide _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
trans-Chlordane (Gamma) _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
cis-Chlordane (Alpha) _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Endosulphan I (Alpha) _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Endosulphan II (Beta) _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Endosulphan Sulphate _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
p,p-DDD (TDE) (4,4) _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
p,p-DDE (4,4) _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
p,p-DDT (4,4) _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Dieldrin _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Endrin _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Endrin Aldehyde _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Endrin Ketone _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Methoxychlor _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Demeton-O _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Demeton-S _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Phorate _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Disulfoton _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Fenthion _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Trichloronate _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Prothiofos (Tokuthion) _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Fensulphothion _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest

Envirolab Job Number: 18/06423

Client Project Name: Ford Airfield

Client Project Ref: 29228

Lab Sample ID	18/06423/32	18/06423/39	18/06423/55	18/06423/56	18/06423/59	18/06423/61			Units	Method ref
Client Sample No										
Client Sample ID	WS5	WS7	WS10	WS10	WS10	WS10				
Depth to Top	4.6	0.2	0.4	0.9	2.4	4.4				
Depth To Bottom		0.40								
Date Sampled	07-Aug-18	07-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18				
Sample Type	Solid	Soil - ES	Soil - ES	Soil - ES	Soil - D	Solid				
Sample Matrix Code	7	4ABE	4A	3	1A	7				
Sulprofos _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Azinphos-methyl _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest
Coumaphos _A	-	-	<0.2	-	-	-			mg/kg	Subcon Chemtest

Envirolab Job Number: 18/06423

Client Project Name: Ford Airfield

Client Project Ref: 29228

Lab Sample ID	18/06423/32	18/06423/39	18/06423/55	18/06423/56	18/06423/59	18/06423/61			Units	Method ref
Client Sample No										
Client Sample ID	WS5	WS7	WS10	WS10	WS10	WS10				
Depth to Top	4.6	0.2	0.4	0.9	2.4	4.4				
Depth To Bottom		0.40								
Date Sampled	07-Aug-18	07-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18	08-Aug-18				
Sample Type	Solid	Soil - ES	Soil - ES	Soil - ES	Soil - D	Solid				
Sample Matrix Code	7	4ABE	4A	3	1A	7				
PAH-16MS										
Acenaphthene _A ^{M#}	-	0.19	<0.01	-	-	-			mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	-	0.01	<0.01	-	-	-			mg/kg	A-T-019s
Anthracene _A ^{M#}	-	0.48	<0.02	-	-	-			mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	-	1.16	<0.04	-	-	-			mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	-	1.09	<0.04	-	-	-			mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	-	1.21	<0.05	-	-	-			mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	-	0.60	<0.05	-	-	-			mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	-	0.48	<0.07	-	-	-			mg/kg	A-T-019s
Chrysene _A ^{M#}	-	1.22	<0.06	-	-	-			mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	-	0.13	<0.04	-	-	-			mg/kg	A-T-019s
Fluoranthene _A ^{M#}	-	3.06	<0.08	-	-	-			mg/kg	A-T-019s
Fluorene _A ^{M#}	-	0.15	<0.01	-	-	-			mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	-	0.72	<0.03	-	-	-			mg/kg	A-T-019s
Naphthalene _A ^{M#}	-	<0.03	<0.03	-	-	-			mg/kg	A-T-019s
Phenanthrene _A ^{M#}	-	2.18	<0.03	-	-	-			mg/kg	A-T-019s
Pyrene _A ^{M#}	-	2.59	<0.07	-	-	-			mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	-	15.3	<0.08	-	-	-			mg/kg	A-T-019s

REPORT NOTES

General:

This report shall not be reproduced, except in full, without written approval from Envirolab.

All samples contained within this report, and any received with the same delivery, will be disposed of one month after the date of this report.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure and there is insufficient sample to repeat the analysis. These are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.