
OBJECTID :



61





Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	62
Date & Time :	11/11/2024 11:35:04.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :



62





Project: Flaxlands

Field Maps Report

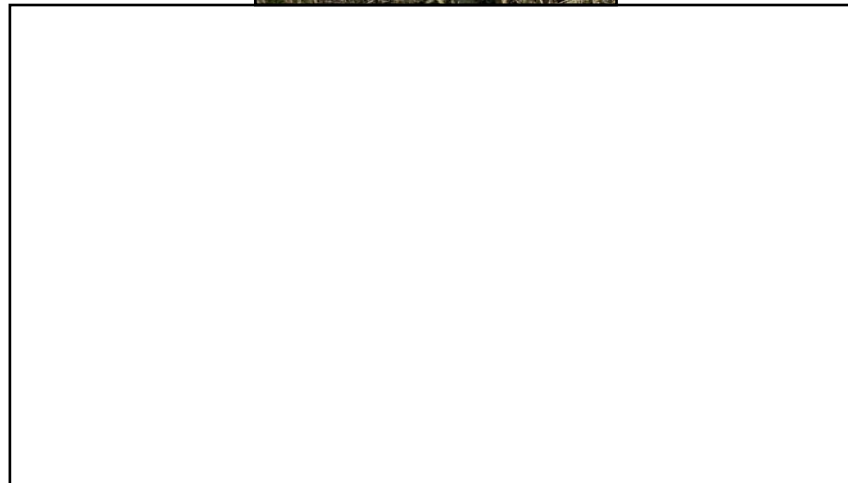
Project No.: 60727989

OBJECTID :	63
Date & Time :	11/11/2024 11:37:11.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view of the site
Additional Notes :	



OBJECTID :

63





Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	64
Date & Time :	11/11/2024 11:38:06.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Surface water and marshy or soft ground (Rivers / streams / width / depth /
Feature Description :	Stream running between hedgerow at the site
Additional Notes :	





Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	65
Date & Time :	11/11/2024 11:38:26.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Overhead Cables (Height / electric / telephone / street lighting)
Feature Description :	Approximate location of Pylon
Additional Notes :	



Project: Flaxlands

Field Maps Report

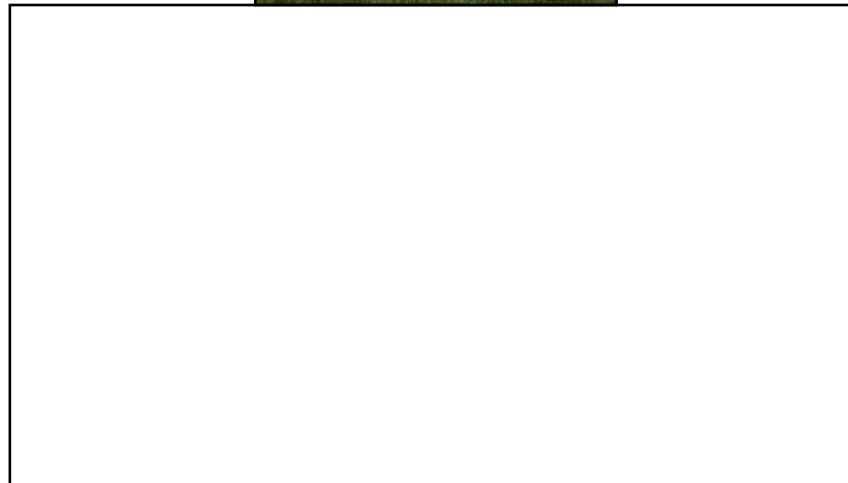
Project No.: 60727989

OBJECTID :	66
Date & Time :	11/11/2024 11:41:34.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :

66





Project: Flaxlands

Field Maps Report

Project No.: 60727989

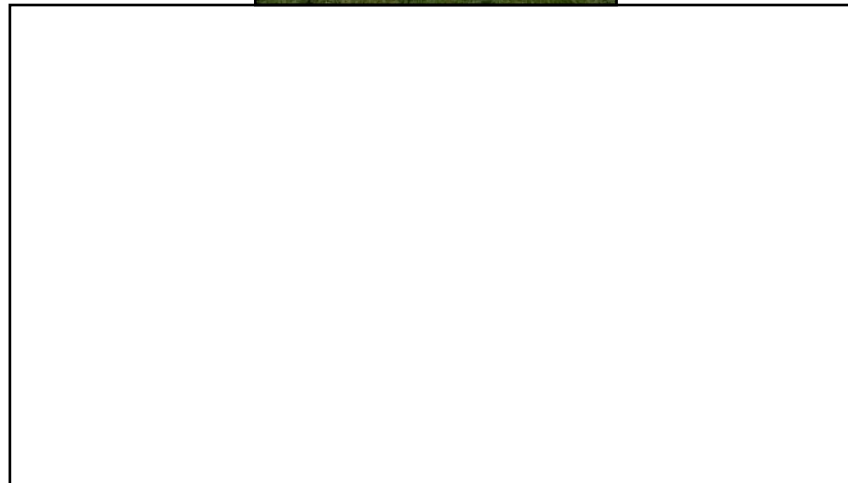
OBJECTID :	67
Date & Time :	11/11/2024 11:42:46.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :



67





Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	68
Date & Time :	11/11/2024 11:44:32.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Surface depressions and deep excavations (Dimensions / depth / shape)
Feature Description :	Trench 0.8m x 10m
Additional Notes :	



OBJECTID :

68



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Project: Flaxlands

Field Maps Report

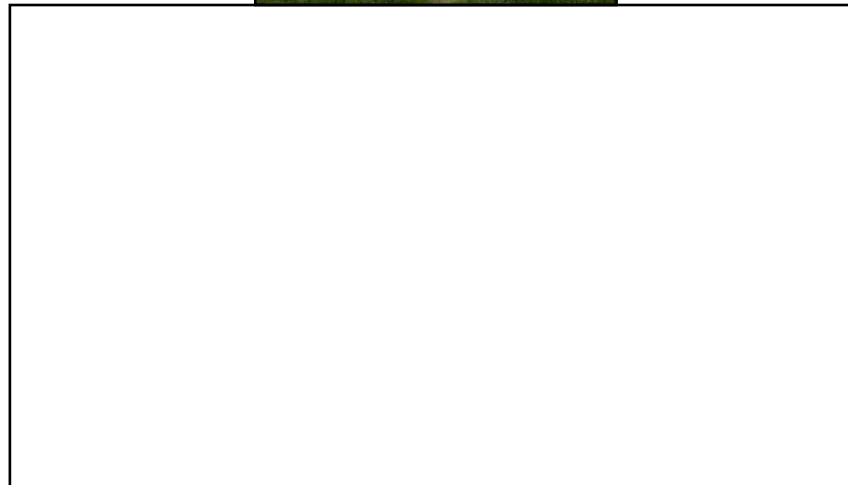
Project No.: 60727989

OBJECTID :	69
Date & Time :	11/11/2024 11:45:24.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :

69





Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	70
Date & Time :	11/11/2024 11:48:19.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Surface water and marshy or soft ground (Rivers / streams / width / depth /
Feature Description :	Pond
Additional Notes :	





Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	70
Date & Time :	11/11/2024 11:48:19.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Surface water and marshy or soft ground (Rivers / streams / width / depth /
Feature Description :	Pond
Additional Notes :	



OBJECTID :

70



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Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	71
Date & Time :	11/11/2024 11:52:23.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :



71





Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	72
Date & Time :	11/11/2024 11:55:36.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :



72



OBJECTID :	73
Date & Time :	11/11/2024 11:56:01.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :

73



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Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	74
Date & Time :	11/11/2024 11:59:13.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Materials / Processes on site (Type / location / security / hazardous
Feature Description :	Mound of material covered in grass
Additional Notes :	



OBJECTID :

74



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OBJECTID :	75
Date & Time :	11/11/2024 12:05:30.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Existing Buildings/structures (Inhabited / Height / plan area / construction)
Feature Description :	Water tank
Additional Notes :	





Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	76
Date & Time :	11/11/2024 12:25:21.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :



76





Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	77
Date & Time :	11/11/2024 12:29:45.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :



77





Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	78
Date & Time :	11/11/2024 12:32:00.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :



78





Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	79
Date & Time :	11/11/2024 12:35:07.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :



79





Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	80
Date & Time :	11/11/2024 12:37:55.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :



80



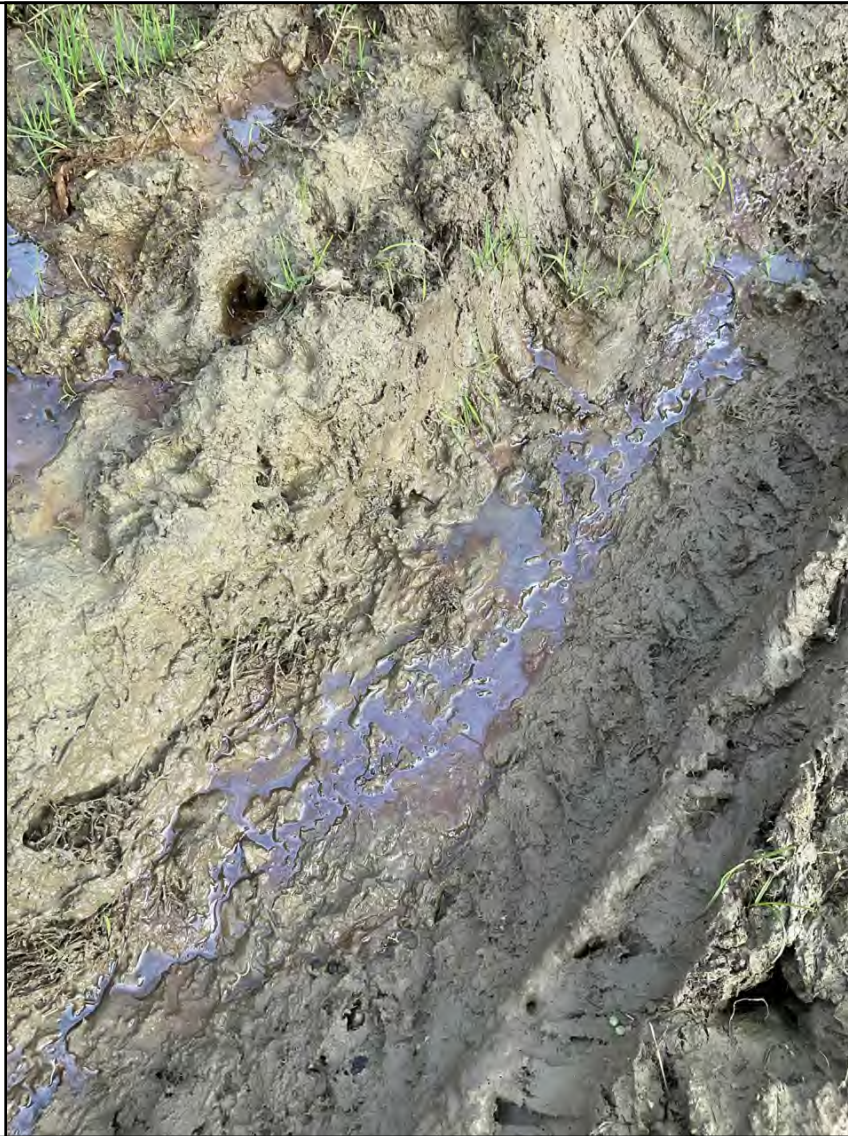


Project: Flaxlands

Field Maps Report

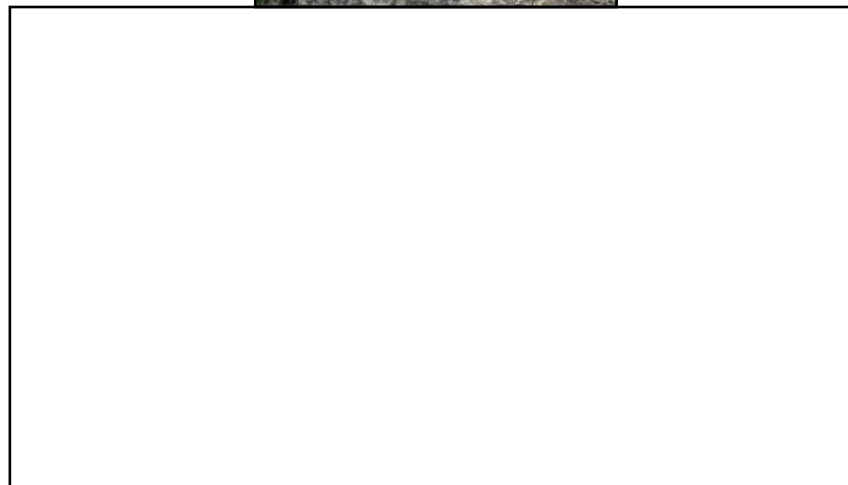
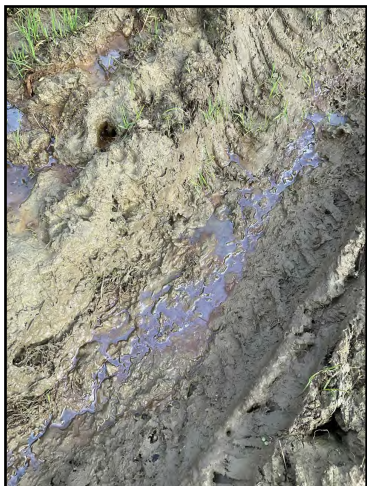
Project No.: 60727989

OBJECTID :	81
Date & Time :	11/11/2024 12:39:58.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Surface water and marshy or soft ground (Rivers / streams / width / depth /
Feature Description :	Oil on water
Additional Notes :	



OBJECTID :

81





Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	82
Date & Time :	11/11/2024 12:43:14.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Vegetation and trees (Grass / trees / maturity / density / Japanese
Feature Description :	Copse in depression
Additional Notes :	



OBJECTID :

82



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Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	83
Date & Time :	11/11/2024 12:44:32.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Buried services, manholes, tanks or pits (Location / type)
Feature Description :	Electrical station
Additional Notes :	



OBJECTID :

83



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Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	84
Date & Time :	11/11/2024 12:45:44.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Buried services, manholes, tanks or pits (Location / type)
Feature Description :	Service cover
Additional Notes :	



OBJECTID :

84



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Project: Flaxlands

Field Maps Report

Project No.: 60727989

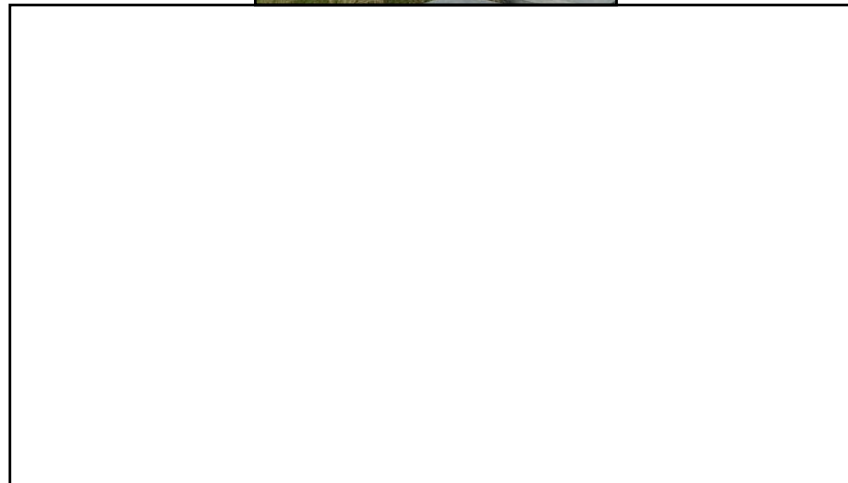
OBJECTID :	85
Date & Time :	11/11/2024 12:46:47.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Buried services, manholes, tanks or pits (Location / type)
Feature Description :	Water reservoir and utility covers
Additional Notes :	



OBJECTID :



85





Project: Flaxlands

Field Maps Report

Project No.: 60727989

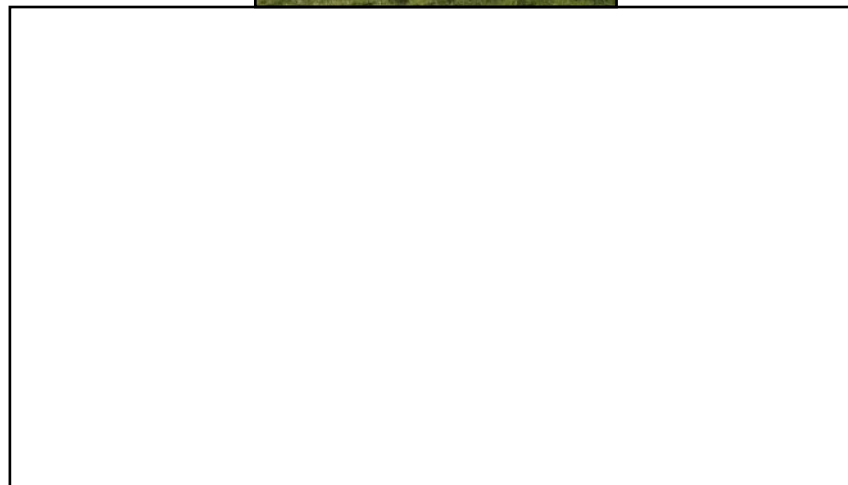
OBJECTID :	86
Date & Time :	11/11/2024 12:55:09.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :



86





Project: Flaxlands

Field Maps Report

Project No.: 60727989

OBJECTID :	87
Date & Time :	11/11/2024 12:59:17.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :



87





Project: Flaxlands

Field Maps Report

Project No.: 60727989

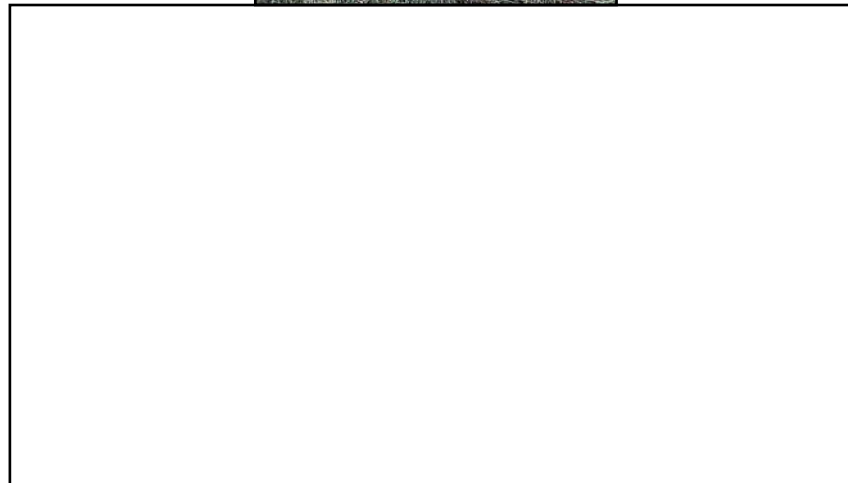
OBJECTID :	88
Date & Time :	11/11/2024 13:03:40.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Surface water and marshy or soft ground (Rivers / streams / width / depth /
Feature Description :	Oil on water
Additional Notes :	



OBJECTID :



88





Project: Flaxlands

Field Maps Report

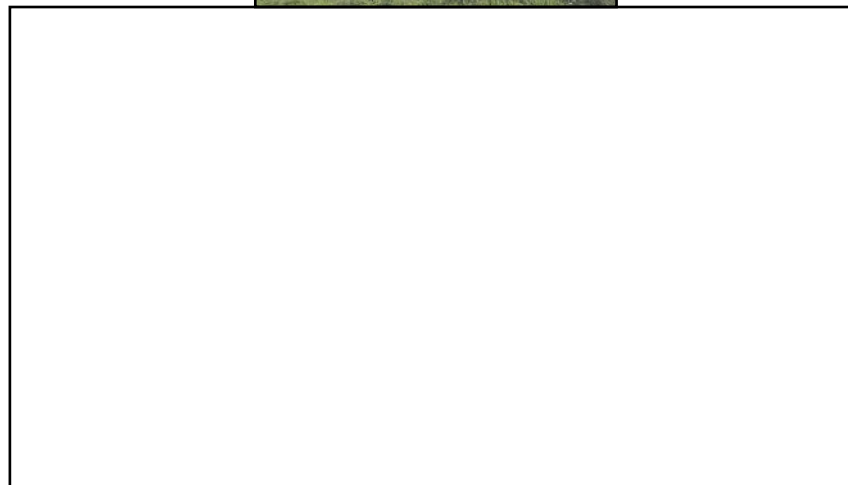
Project No.: 60727989

OBJECTID :	89
Date & Time :	11/11/2024 13:05:29.000
Creator :	Lydia.Rouillard@aecom.com_aecom
Feature :	Other relevant observations (Including identification of potential risks to
Feature Description :	General view
Additional Notes :	



OBJECTID :

89



Appendix E Geotechnical Risk Register

A Geotechnical Risk Register has been compiled to show the degree of risk attached to various ground related aspects of the Proposed Development. The purpose of the register is to produce an assessment of the risk to the project posed by site specific ground related problems and identify suitable mitigation measures to control the risk to an acceptable level. The risk register should be developed and refined as the geotechnical design and assessment progresses such that the register will allow management of the geotechnical risks.

The degree of risk (R) is determined by combining an assessment of the likelihood (L) of the hazard with an assessment of the severity (S) of the hazard. The scale against which the likelihood and severity are measured, and the resulting degree of risk determined is presented below.

Table 13-1 Classification of Probability and Impact

Likelihood (L)		Severity (S)	
Very Likely	5	Very High	5
Likely	4	High	4
Probable	3	Medium	3
Unlikely	2	Low	2
Negligible	1	Very Low	1

Table 13-2 Risk Matrix

Likelihood	5	5	10	15	20	25
	4	4	8	12	16	20
	3	3	6	9	12	15
	2	2	4	6	8	10
	1	1	2	3	4	5
		1	2	3	4	5
		Severity				

Table 13-3 Classification of Risk Rating

Risk rating	Response
Intolerable	Unacceptable
Substantial	Early Attention
Tolerable	Regular Attention
Trivial	Monitor

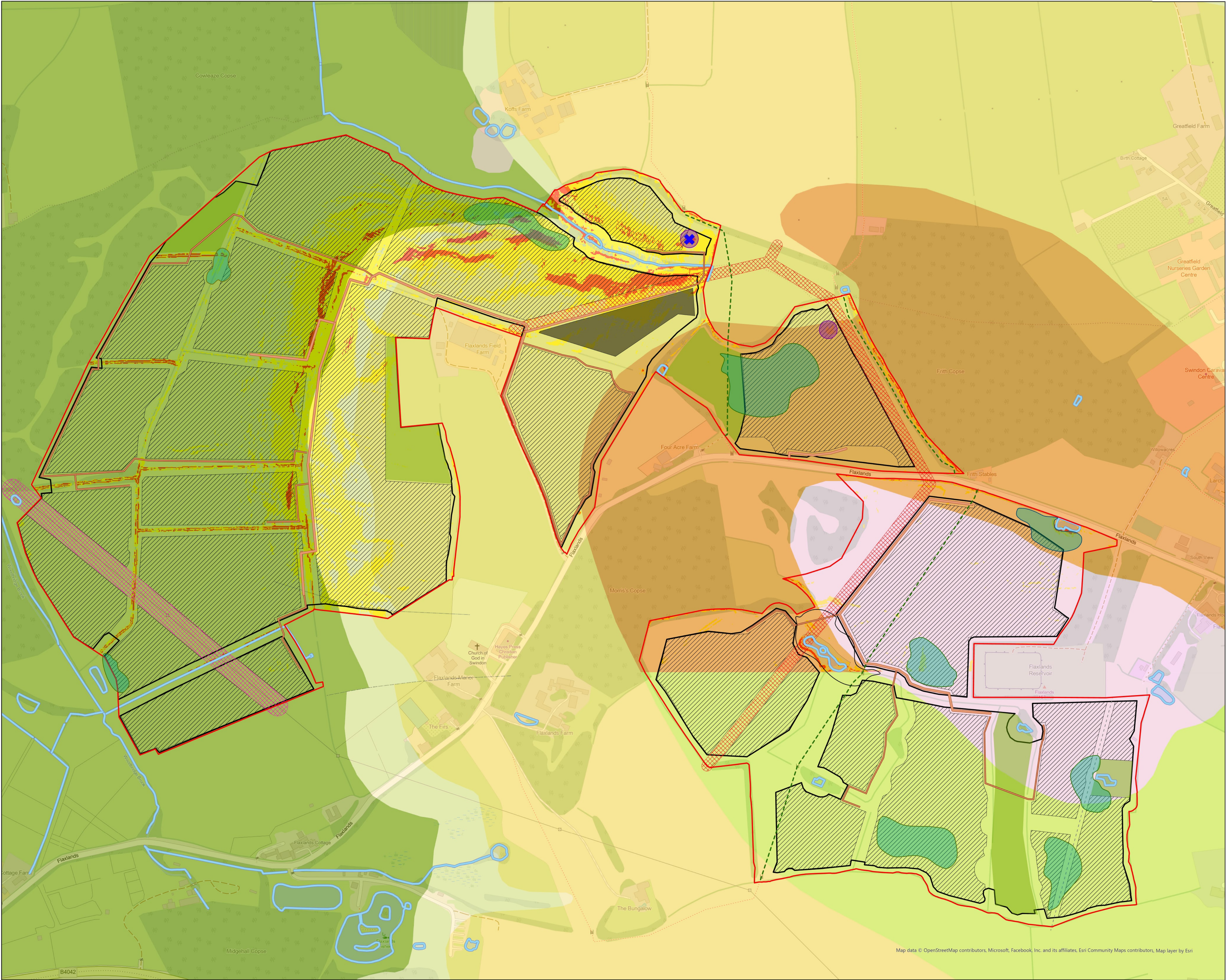
Table 13-4 Geotechnical Risk Register

Identified Geotechnical Hazard	Cause	Risk before Control			Consequence	Mitigation Measures	Risk after Control		
		L	S	R (LxS)			L	S	R (LxS)
Aggressive ground chemistry	Oxford Clay and Amphthill/ Kimmeridge Clay Formation are potentially sulphide/sulphate mineral bearing stratum.	5	3	15	Deleterious effects on buried concrete; Pavement Heave.	Ground Investigation to identify underlying ground conditions and assess risk; Analyse BRE SD1 test results and design concrete mix and the additional protective measures during detailed design in accordance with BRE SD1 guidance.	5	1	5
Frost susceptible soils	Silt-rich soils may be present at site within Oxford Clay and Amphthill Clay Formations.	3	3	9	Surface damage or alternative design; Frost heave.	Ground Investigation to identify underlying ground conditions and assess risk; Increase subgrade thickness to mitigate risk.	3	2	6
Existing underground and overhead services at proposed site of works	Overhead cables present in multiple areas of the Site. Underground utilities anticipated from existing farm building and residential house present on site.	4	4	16	Increased cost and delay to divert or lower services; H&S impact during any excavations during Ground Investigation or construction; Relocation of ground investigation or site area to avoid overhead services; Scheme design alterations to avoid overhead/underground services.	Obtain up to date service plans and records; Undertake safe digging procedures in accordance with HSG47, PAS128 and HSE guidance on overhead utilities; Undertake ground penetrating radar (GPR) surveys and mark out services prior to any investigations; Plan Ground Investigation to avoid buried and overhead services; Design Proposed Development to minimise impact on existing services.	2	4	8
Excavatability issues within hard strata	Cemented beds may cause issues for hand digging and foundation installation if found at surface.	3	3	9	Delays to programme, issues during excavation for the proposed structures.	Ground investigation to derive an accurate ground model for the area and to find the areas/depths of concern.	3	2	6
Variability of superficial deposits and Made Ground (if present)	Differing thicknesses and composition of superficial deposits and horizon of bedrock, change in engineering properties due to the inherent variability of the strata. Potential for infilled ground at the Site.	4	2	8	Lack of information of the nature of the soils (granular or cohesive) and rock may have design implications. Made Ground likely host to obstructions, which can cause delay during excavation or construction.	Ground investigation to derive an accurate ground model for the area and to find the true thicknesses and composition of the units local to the proposed construction areas.	4	1	4

Identified Geotechnical Hazard	Cause	Risk before Control			Consequence	Mitigation Measures	Risk after Control		
		L	S	R (LxS)			L	S	R (LxS)
Shallow groundwater	Permeability of granular materials. Shallow groundwater.	3	3	9	May cause time delays during construction phase. May result in excavation instability and need for dewatering. Site is located within a SPZ2c.	Installation of groundwater standpipes and monitoring over an extended period. Design groundwater control measures, as well as support for excavations during construction phase. Adopt conservative groundwater levels. Contractor is to adopt appropriate methodologies during construction and more monitoring if deemed necessary to better understand groundwater level variation and impact on adjacent watercourses.	3	2	6
Ground Conditions	Only limited historical ground information is available. There is limited information available for superficial and bedrock units.	4	2	8	Risk of differential settlement when founding on fractured cemented beds overlying clay. Upper bedrock layer may have variable strength, due to weathering. Potential for soft marshy ground.	Undertake ground investigation to derive geotechnical parameters to inform the detailed design. Geotechnical data obtained to be used in design of structures within development.	3	2	6
UXO	'Low' risk of UXO	2	4	8	Delays caused by clearance works or initiation endangering life.	Zetica online mapping suggests a 'Low' risk of World War Two UXO at the Site, in addition to a review of historical maps which identified no military land uses in the nearby area. Limit intrusive construction activity as far as reasonably practicable	1	4	4
Shrink/swell of cohesive soils	Oxford Clay and Ampthill/ Kimmeridge Clay Formation	4	3	12	Risk of heave and/or settlement beneath structures	Assessment and allowance in the design for total and differential movements. Undertake arboricultural survey to establish tree size and species and follow foundation design as per NHBC standards.	3	1	3
Landsliding Risk	Moderate landsliding risk presented within Groundsure Report	3	4	12	Risk of ground failure and movement of structures	Establish through ground investigation presence of shear surfaces and landslide deposits if present on site and adopt appropriate design measures for foundations.	1	3	3
Dissolution Risk	A dissolution feature was observed on site during the walkover despite having a low risk in Groundsure Report	3	3	9	Risk of ground failure and collapse of structures above if built over	Establish through ground investigation presence of dissolution feature and condition of bedrock. Do not construct above dissolution feature and within surrounding area (to be defined based on extent of feature).	3	1	3

Appendix F Constraints Plan

Filename: C:\Users\Lydia.Rouillard\OneDrive - AECOM\Flaxlands02_Maps\Flaxlands_GIS\Flaxlands_GIS.aprx



AECOM

PROJECT

Flaxlands Solar Farm

CLIENT

Ampyr Solar Europe

CONSULTANT

AECOM Limited
Midpoint, Alencon Link
Basingstoke
Hampshire RG21 7PP
United Kingdom

Legend

- Site Boundary
- Track
- Water
- 11kv_OH_Line
- Biodiversity_Net_Gain
- fence line v1
- solar_area
- BESS_area
- Public_Right_of_Way

Geology

- AMPTHILL CLAY FORMATION AND KIMMERIDGE CLAY FORMATION (UNDIFFERENTIATED) - MUDSTONE
- AMPTHILL CLAY FORMATION - MUDSTONE
- OXFORD CLAY FORMATION - MUDSTONE
- STANFORD FORMATION - LIMESTONE
- HAZELBURY BRYAN FORMATION AND KINGSTON FORMATION (UNDIFFERENTIATED) - SANDSTONE, SILTSTONE AND MUDSTONE
- SAND AND GRAVEL OF UNCERTAIN AGE AND ORIGIN- GRAVEL, SAND, SILT AND CLAY
- MASS MOVEMENT DEPOSITS
- FAULT (INFERRED)

Constraints

- Marsh
 - Dissolution_Feature
 - 132kv_OH_Line
 - 11kv_OH_Line
 - Slopes >5° to 10°
 - Slopes >10° to 35°
 - Quarry 1884-1925
- Whole site within groundwater SP22c and Restrop Farm and Brookhurst Wood SSSI impact risk zone

NOTES

- The constraints on site were identified during the walkover on site undertaken 11.11.24 .
- The presented Site Boundary, Access Tracks, Biodiversity Net Gain, Solar Farm Area, BESS Area, Fence Line V1 is from the most recent drawing at time of production AECOM (2024) FLAXLANDS SOLAR FARM CONCEPT DESIGN WITHOUT CONSTRAINTS REV R12 06.08.24
- Water and Public Right of Way was obtained through AECOM (2024) FLAXLANDS SOLAR FARM CONCEPT DESIGN WITHOUT CONSTRAINTS REV R12 06.08.24 and contains public sector information licensed under the Open Government Licence
- Slope angles derived from the Terrain dataset using the ArcGIS Pro "slope" geospatial analyst using Environment Agency, LIDAR Composite first return Digital Terrain Model (DTM) 2m Resolution (SU08NE & SU08SE), Open Government Licence, last updated 14.06.24
- Geology contains British Geological Survey materials © UKRI [2024]

ISSUE PURPOSE

DRAFT / FINAL

PROJECT NUMBER

60727989

FIGURE TITLE

Constraints Plan

FIGURE NUMBER

Figure 1

Appendix G BGS Boreholes



AC 22 47534

ENVIRONMENT AGENCY

Form WR - 381	Ref: formwr381	Agency No.
---------------	----------------	------------

BOREHOLE RECORD

THAMES EX

A. SITE DETAILS

252

SU08/26
SU08SE

Borehole drilled for:	Mr Richard Woolford
Location:	Hook Farm, Hook Street, Wootton Bassett, Swindon SN4 8EF
N.G.R.:	SU 085 847
Ground Level (if known):	SURFACE
Drilling Company:	W.B. & A.D. MORGAN LTD., PRESTEIGNE, POWYS. LD8 2UF
Date of Drilling:	Commenced: 14/03/08 Completed: 03/04/08

B. CONSTRUCTION DETAILS

Borehole datum (if not ground level) GROUNDLEVEL
(Point from which all measurements of depth are taken e.g. flange, edge of chamber, etc.)

Borehole drilled diameter..... 300 mm from 0 to 21 m/depth
200 mm from 21 to 70 m/depth
mm from _____ to _____ m/depth

Casing material: u.P.V.C diameter 200mm mm from 0 to 21 m/depth
and type (e.g. plain steel, plastic slotted)

Perm Steel

Plain diameter _____ mm from _____ to _____ m/depth
Slotted diameter _____ mm from _____ to _____ m/depth
Plain diameter _____ mm from _____ to _____ m/depth
Slotted diameter _____ mm from _____ to _____ m/depth
Plain diameter _____ mm from _____ to _____ m/depth

Grouting details: _____ to surface

Water struck at: 8m m (depth below datum - mbd)

Rest water level on completion: _____ m (depth below datum - mbd)

Estimated blowout yield: Not enough water Gallons per hour

C. STRATA LOG

Description of Strata	Thickness (m)	Depth (m)
Drift	3	3
Yellow clay	2	5
Grey sandy clay	3	8
Hard band limestone clay	10	18
Blue grey clay with limestone bands	20	38
Oxford clay	32	70

Other Comments (e.g. gas encountered, saline water intercepted, etc.)	
Gravel Pack Quantity:	Temp Steel Casing: Depth and Diameter
Cement: 1000kg	8.5m x 300mm
Rig & Crew:	A Evans, S Powell, Berretta T151

ATION ENGINEERING
Ltd.

DIAMOND DRILLING
BOREHOLE LOG

SU08SE/41

LOCATION : M4. MOTORWAY

BOREHOLE No. : A52 (Sheet 1 of 2)

BOREHOLE DIA. : 75mm

GROUND LEVEL :

DATE (Start) : 30.4.68

WATER LEVEL :

0715.8436

Description	Thickness	Depth	Sample	Remarks
TOPSOIL	1'2"	0'0"		
	0'36m	1'2"		
Brown/grey LIMESTONE	1'10"	0'36m	01	Jar at 2'6"
	0'59m	3'0"		0'76m
		0'91m	02	Jar at 5'0"
Grey LIMESTONE, very broken in places with a brown sandy clay matrix	8'5"			1'52m
	2'57m			
		11'5"		
Grey LIMESTONE with bands of brown sandy clay.	3'2"	3'48m		
	0'97m	14'7"	03	Jar at 15'0"
		4'45m		4'57m
Grey LIMESTONE, with brown sandy clay bands.	7'5"		04	Jar at 20'0"
	2'26m			6'10m
		22'0"		
		6'71m		
Grey LIMESTONE, mostly very broken, with bands of blue silty clay.	12'7"		05	Jar at 30'0"
	3'85m			9'14m
		34'7"		
		10'54m		
Grey LIMESTONE, with soft and firm sandy blue clay.	6'2"		06	Jar at 40'0"
	1'88m			12'19m
		40'9"		
Stiff blue silty CLAY		12'42"	X	
			X	
		(45'0")		
		13'72m		
				COKE ON SHT. 2.

SCALE: 1" = 5' : DISPERSED SAMPLE : UNDISTURBED SAMPLE + STANDARD PENETRATION TEST



CONSTRUCTION ENGINEERING

Ltd.

DIAMOND DRILLING

BOREHOLE LOG

SU08SE/41

LOCATION : M4 MOTORWAY

BOREHOLE No. : A 52 (Sheet 2 of 2)

BOREHOLE DIA. : 75mm

GROUND LEVEL :

DATE (Start) :

WATER LEVEL :

Description	Thickness	Depth		Sample	Remarks
		15'0"			
		13'72"	X		
			X		
			X		
Stiff blue silky CLAY	11'9" 2.28m				
		52'6"	X		
		16'00m			
				07	Jar at 52'6" 16'00m
					BOREHOLE COMPLETE

SCALE : 1" = 5' : : DISTURBED SAMPLE I : UNDISTURBED SAMPLE + STANDARD PENETRATION TEST



ION ENGINEERING

Ltd

BOREHOLE LOG

SU08SE/11

LOCATION : M4 SWINDON

BOREHOLE No. : 76A Sheet 1 of 2
(1089+20.80'L)

BOREHOLE DIA : 6"

GROUND LEVEL : 375.3' O.D. (114.46m)

DATE (Start) 4

11

66

WATER LEVEL : 10' .0" B.G.L.

0634.8449

Description	Thickness	Depth	Sample	Remarks
TOP SOIL	0'-6"	0'-0"		
Firm brown mottled grey silty CLAY with occ. stones	6'-0"	(0-49m)	1	4400 Filbs to drive 1 ft
			2	7600 Filbs to drive 1 ft
			3	5200 Filbs to drive 1 ft
			4	4300 Filbs to drive 1 ft
Firm dark grey silty CLAY with occ. shells	6'-6"	(1-48m)	5	4400 Filbs to drive 1 ft
			6	4900 Filbs to drive 1 ft
			7	5000 Filbs to drive 1 ft
			8	5400 Filbs to drive 1 ft
			9	4700 Filbs to drive 1 ft
(became stiff at 20' .0")		(20'-0") (6.1m)	10	5700 Filbs to drive 1 ft
			11	6500 Filbs to drive 1 ft
			12	6800 Filbs to drive 1 ft
			13	7200 Filbs to drive 1 ft
			14	6500 Filbs to drive 1 ft
			15	7600 Filbs to drive 1 ft
			16	7500 Filbs to drive 1 ft
			U4	failed
			8000	Filbs
			U4	failed
			8200	Filbs
			17	9200 Filbs to drive 1 ft
			18	8600 Filbs to drive 1 ft
			19	10000 Filbs to drive 1 ft
			20	9200 Filbs to drive 1 ft
			U4	failed
			10300	Filbs
(became very stiff at 30' .0")		30'-0"	21	9700 Filbs to drive 1 ft

SCALE : 1" = 5' : DISTURBED SAMPLE : UNDISTURBED SAMPLE + STANDARD PENETRATION TEST



ION ENGINEERING

BOREHOLE LOG

SU08SE/11

LOCATION : M4 SWINDON

BOREHOLE No. : 76A Sheet 2 of 2

BOREHOLE DIA. :

GROUND LEVEL :

DATE (Start) :

WATER LEVEL :

Description	Thickness	Depth	Sample	Remarks
Very stiff dark grey silty CLAY with occ. shells	63'-6" (19.3m)	50'-0"	22	10300 fHbs to drive 1ft
			23	12600 fHbs to drive 1ft
			24	12300 fHbs to drive 1ft
			25	12000 fHbs to drive 1ft
			26	10800 fHbs to drive 1ft
			27	12200 fHbs to drive 1ft
			28	13500 fHbs to drive 1ft
				U4 failed 12300 fHbs
			29	12500 fHbs to drive 1ft
			30	13200 fHbs to drive 1ft
		70'-0" (21.35m)		BOREHOLE COMPLETE

SCALE: 1"=5' •: DISTURBED SAMPLE I: UNDISTURBED SAMPLE + STANDARD PENETRATION TEST

ATION ENGINEERING
Ltd.

BOREHOLE LOG

SU08SE/12

LOCATION : M4 SWINDON

BOREHOLE No. : 77A Sheet 1 of 2
(089+00, 70'R)

BOREHOLE DIA. : 6"

GROUND LEVEL : 376.6' O.D. (114.86m)

DATE (Start) : 8 11 66

WATER LEVEL : 3' - 0" B.C.L.

0633-8445

Description	Thickness	Depth	Sample	Remarks
TOPSOIL	0'-6"	0'-0"		
Firm brown mottled grey silty CLAY with occ. stones	5'-0"	(0.45m)	1	
Firm dark grey silty CLAY with occ. shells	5'-6"	(1.67m)	2	4600 fflbs to drive 1ft
			3	
			4	4000 fflbs to drive 1ft
			5	
			6	4100 fflbs to drive 1ft
			7	
			8	4300 fflbs to drive 1ft
			9	
(became stiff at 25'-0")		(25'-0") (6.7m)	10	5900 fflbs to drive 1ft
			11	
			12	5700 fflbs to drive 1ft
			13	
			14	7200 fflbs to drive 1ft
			15	
			16	7700 fflbs to drive 1ft
			17	
			18	8900 fflbs to drive 1ft
			19	
		(15.3m) 50'-0"		

SCALE : 1" = 5' : DISTURBED SAMPLE : UNDISTURBED SAMPLE + STANDARD PENETRATION TEST

ON ENGINEERING
Ltd.

BOREHOLE LOG

SU08SE12

LOCATION : M4 SWINDON

BOREHOLE No. : 77A Sheet 2 of 2

BOREHOLE DIA. :

GROUND LEVEL :

DATE (Start) :

WATER LEVEL :

Description	Thickness	Depth	Sample	Remarks
Stiff dark grey silty CLAY with occ. shells	68' 6"	50' 0" (15.3m)	209500	Fill to drive 1ft
			21	
			22	10000 Fill to drive 1ft
			23	
(become very stiff at 58' 0")		58' 0" (17.7m)	24	12000 Fill to drive 1ft
			25	
			26	141000 Fill to drive 1ft
			27	12800 Fill to drive 1ft
			28	
Hard layers of mottled SHELLS with clay.	16' 0"	74' 0" (22.57m)	29	
			30	
		80' 0" (24.4m)		BOREHOLE COMPLETE

SCALE : 1" = 5' : : DISTURBED SAMPLE : : UNDISTURBED SAMPLE : : STANDARD PENETRATION TEST

