

Our Ref: 24-40541
Your Ref: 406/02/084/SC

Analysis Report

Client: Parchow Groundworks
New Down Lane
Waterlooville
Hampshire
PO7 5SE
United Kingdom

Sample Details: 6 soil samples for Top Soil Analysis

Date report issued: 13 February 2024 Issue Number: 1

Number of pages (including this one): 14

Accreditation

All analytes marked ^M have been analysed under the scope of our MCERTS accreditation

All analytes marked ^U have been analysed under the scope of our UKAS accreditation

All analytes marked ^m have been subcontracted and analysed under the scope of their MCERTS accreditation

All analytes marked ^u have been subcontracted and analysed under the scope of their UKAS accreditation

All results labelled with an asterisk (*) are non-conforming due to incorrect sample storage or handling. The result may be invalid.

All comments are beyond the scope of our accreditation.

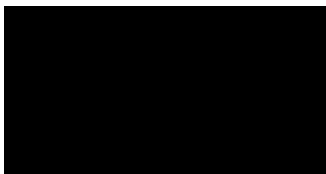
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Unless sampled by Envirochem, all sample details supplied by client.

Uncertainty of measurement is not accounted for in reported results

Signed on behalf of Envirochem by an authorised signatory



Dan Dockree

Authorised Signatory

Our Ref: 24-40541
Your Ref: 406/02/084/SC

Soil Analysis Report

(Analysed in accordance with BS 3882:2015)

Client:	Parchow Groundworks	Submitted By:	Client
Sample Lab Reference:	Job: 24-40541-Samp. 130256	Date Received:	5 February 2024
Site Details:	406 North Street, Emsworth, PO10 7DA	Date Analysis Started:	5 February 2024
Sample Point:	Plot 16A Topsoil	Date Completed:	13 February 2024
Date Sampled:	Not Supplied		
Sampled By:	Client		
Sample Description:	Soil - Sandy Loam		

Table 1 : Soil Texture (% m/m)

Texture	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
Clay Content (%)	5.05	10		5 - 35				
Silt Content (%)	5.05	20		0 - 65				
Sand Content (%)	5.05	70		30 - 85				
Soil Texture Class	5.05	Sandy loam		Note: see soil texture triangle in BS3882:2015 for allowed soils				

Table 2 : Mass Loss on Ignition (%)

Clay percentage	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
Clay (5 - 20 %)	6.09	6.6	3 - 20	3 - 30	3 - 30	2 - 20	2 - 20	2 - 20
Clay (20 - 35 %)	6.09		5 - 20	5 - 30	5 - 30	2 - 20	2 - 20	2 - 20

Table 3 : Maximum Coarse Fragment Content (% (m/m))

Particle size	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
			Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
> 2 mm	6.0		0 - 30				
> 20 mm	0.0		0 - 10				
> 50 mm	0		0				

Table 4 : Chemical Analysis (air-dried, sieved (<2 mm) soil)

Analyte	Dev. code	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
					Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
soil pH Value ^M	AD	5.06, 603	7.50 *	5.5 - 8.5	3.5 - 5.5	7.5 - 9.0	3.5 - 9.0	3.5 - 5.5	7.5 - 9.0
Calcium Carbonate (%)		6.07	3.5	-	-	> 1	-	-	> 1

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Table 5 : Available Plant Nutrient Content

Analyte	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert. Acidic	Low Fert. Calc.
Nitrogen (% m/m)		0.67	> 0.15	> 0.15	> 0.15	-	-	-
Extractable Phosphate (mg/l)	6.08	138	16 - 140	16 - 140	16 - 140	< 20	< 20	< 20
Extractable Potassium (mg/l)	6.08	487	121 - 1500	121-1500	121-1500	-	-	-
Extractable Magnesium (mg/l)	6.08	187	51 - 600	51 - 600	51 - 600	-	-	-
Carbon:Nitrogen Ratio		8.6	< 20:1	< 20:1	< 20:1	< 35:1	< 35:1	< 35:1
Soil Electrical Conductivity		369.0	< 3300	-				
Exchangeable Sodium (%) 1)	6.08	0.883	< 15					

1) Need be measured only if the electrical conductivity is greater than 2800 us/cm

Table 6 : Phytotoxic Contaminants (by soil pH) (mg/kg) analyses carried out on air dried samples

	Dev. code	Method	Sample	Multipurpose and Specific purpose Topsoils		
Soil pH Range				< 6.0	6.0 - 7.0	> 7.0
Zinc ^M	AD	5.18 & 6.08	73 *	< 200	< 200	< 300
Copper ^M	AD	5.18 & 6.08	23 *	< 100	< 135	< 200
Nickel ^M	AD	5.18 & 6.08	11 *	< 60	< 75	< 110

Table 7 : Additional Physical characteristics

	Method	Sample
Water Content (%)	6.01	25.2
Total Organic Carbon (%)	6.07	5.3
Soil Organic Matter (%)	6.09	9.2
Visible Contaminants (%)	Total Visible contaminants	0.0
	Plastic Visible contaminants	0.0
	Sharps Visible contaminants	0.0

Comments: (including details of weeds and other visible contaminants - all comments are beyond the scope of our accreditation)

Results marked with an asterisk (*) are non conforming due to sampling handling time or conditions. Therefore, the result may be invalid.
All limits are taken from BS 3882:2015

Our Ref: 24-40541
Your Ref: 406/02/084/SC

Soil Analysis Report

(Analysed in accordance with BS 3882:2015)

Client:	Parchow Groundworks	Submitted By:	Client
Sample Lab Reference:	Job: 24-40541-Samp. 130257	Date Received:	5 February 2024
Site Details:	406 North Street, Emsworth, PO10 7DA	Date Analysis Started:	5 February 2024
Sample Point:	Plot 16B Topsoil	Date Completed:	13 February 2024
Date Sampled:	Not Supplied		
Sampled By:	Client		
Sample Description:	Soil - Sandy Loam		

Table 1 : Soil Texture (% m/m)

Texture	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
Clay Content (%)	5.05	10		5 - 35				
Silt Content (%)	5.05	20		0 - 65				
Sand Content (%)	5.05	70		30 - 85				
Soil Texture Class	5.05	Sandy loam		Note: see soil texture triangle in BS3882:2015 for allowed soils				

Table 2 : Mass Loss on Ignition (%)

Clay percentage	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
Clay (5 - 20 %)	6.09	6.1	3 - 20	3 - 30	3 - 30	2 - 20	2 - 20	2 - 20
Clay (20 - 35 %)	6.09		5 - 20	5 - 30	5 - 30	2 - 20	2 - 20	2 - 20

Table 3 : Maximum Coarse Fragment Content (% (m/m))

Particle size	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
			Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
> 2 mm	7.7		0 - 30				
> 20 mm	0.0		0 - 10				
> 50 mm	0		0				

Table 4 : Chemical Analysis (air-dried, sieved (<2 mm) soil)

Analyte	Dev. code	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
					Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
soil pH Value ^M	AD	5.06, 603	7.36 *	5.5 - 8.5	3.5 - 5.5	7.5 - 9.0	3.5 - 9.0	3.5 - 5.5	7.5 - 9.0
Calcium Carbonate (%)		6.07	0.6	-	-	> 1	-	-	> 1

Our Ref: 24-40541
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Table 5 : Available Plant Nutrient Content

Analyte	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert. Acidic	Low Fert. Calc.
Nitrogen (% m/m)		1.00	> 0.15	> 0.15	> 0.15	-	-	-
Extractable Phosphate (mg/l)	6.08	124	16 - 140	16 - 140	16 - 140	< 20	< 20	< 20
Extractable Potassium (mg/l)	6.08	765	121 - 1500	121-1500	121-1500	-	-	-
Extractable Magnesium (mg/l)	6.08	215	51 - 600	51 - 600	51 - 600	-	-	-
Carbon:Nitrogen Ratio		11.8	< 20:1	< 20:1	< 20:1	< 35:1	< 35:1	< 35:1
Soil Electrical Conductivity		334.0	< 3300	-				
Exchangeable Sodium (%) 1)	6.08	1.13	< 15					

1) Need be measured only if the electrical conductivity is greater than 2800 us/cm

Table 6 : Phytotoxic Contaminants (by soil pH) (mg/kg) analyses carried out on air dried samples

	Dev. code	Method	Sample	Multipurpose and Specific purpose Topsoils		
Soil pH Range				< 6.0	6.0 - 7.0	> 7.0
Zinc ^M	AD	5.18 & 6.08	83 *	< 200	< 200	< 300
Copper ^M	AD	5.18 & 6.08	27 *	< 100	< 135	< 200
Nickel ^M	AD	5.18 & 6.08	13 *	< 60	< 75	< 110

Table 7 : Additional Physical characteristics

	Method	Sample
Water Content (%)	6.01	24.4
Total Organic Carbon (%)	6.07	11.7
Soil Organic Matter (%)	6.09	20.1
Visible Contaminants (%)	Total Visible contaminants	0.0
	Plastic Visible contaminants	0.0
	Sharps Visible contaminants	0.0

Comments: (including details of weeds and other visible contaminants - all comments are beyond the scope of our accreditation)

Results marked with an asterisk (*) are non conforming due to sampling handling time or conditions. Therefore, the result may be invalid.
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Soil Analysis Report

(Analysed in accordance with BS 3882:2015)

Client:	Parchow Groundworks	Submitted By:	Client
Sample Lab Reference:	Job: 24-40541-Samp. 130258	Date Received:	5 February 2024
Site Details:	406 North Street, Emsworth, PO10 7DA	Date Analysis Started:	5 February 2024
Sample Point:	Plot 16C Topsoil	Date Completed:	13 February 2024
Date Sampled:	Not Supplied		
Sampled By:	Client		
Sample Description:	Soil - Sandy Loam		

Table 1 : Soil Texture (% m/m)

Texture	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
Clay Content (%)	5.05	10		5 - 35				
Silt Content (%)	5.05	20		0 - 65				
Sand Content (%)	5.05	70		30 - 85				
Soil Texture Class	5.05	Sandy loam		Note: see soil texture triangle in BS3882:2015 for allowed soils				

Table 2 : Mass Loss on Ignition (%)

Clay percentage	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
Clay (5 - 20 %)	6.09	5.6	3 - 20	3 - 30	3 - 30	2 - 20	2 - 20	2 - 20
Clay (20 - 35 %)	6.09		5 - 20	5 - 30	5 - 30	2 - 20	2 - 20	2 - 20

Table 3 : Maximum Coarse Fragment Content (% (m/m))

Particle size	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
			Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
> 2 mm	4.8		0 - 30				
> 20 mm	0.0		0 - 10				
> 50 mm	0		0				

Table 4 : Chemical Analysis (air-dried, sieved (<2 mm) soil)

Analyte	Dev. code	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
					Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
soil pH Value ^M	AD	5.06, 603	7.48 *	5.5 - 8.5	3.5 - 5.5	7.5 - 9.0	3.5 - 9.0	3.5 - 5.5	7.5 - 9.0
Calcium Carbonate (%)		6.07	0.8	-	-	> 1	-	-	> 1

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Table 5 : Available Plant Nutrient Content

Analyte	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert. Acidic	Low Fert. Calc.
Nitrogen (% m/m)		0.52	> 0.15	> 0.15	> 0.15	-	-	-
Extractable Phosphate (mg/l)	6.08	125	16 - 140	16 - 140	16 - 140	< 20	< 20	< 20
Extractable Potassium (mg/l)	6.08	524	121 - 1500	121-1500	121-1500	-	-	-
Extractable Magnesium (mg/l)	6.08	164	51 - 600	51 - 600	51 - 600	-	-	-
Carbon:Nitrogen Ratio		9.1	< 20:1	< 20:1	< 20:1	< 35:1	< 35:1	< 35:1
Soil Electrical Conductivity		345.0	< 3300	-				
Exchangeable Sodium (%) 1)	6.08	1.03	< 15					

1) Need be measured only if the electrical conductivity is greater than 2800 us/cm

Table 6 : Phytotoxic Contaminants (by soil pH) (mg/kg) analyses carried out on air dried samples

	Dev. code	Method	Sample	Multipurpose and Specific purpose Topsoils		
Soil pH Range				< 6.0	6.0 - 7.0	> 7.0
Zinc ^M	AD	5.18 & 6.08	83 *	< 200	< 200	< 300
Copper ^M	AD	5.18 & 6.08	24 *	< 100	< 135	< 200
Nickel ^M	AD	5.18 & 6.08	12 *	< 60	< 75	< 110

Table 7 : Additional Physical characteristics

	Method	Sample
Water Content (%)	6.01	39.3
Total Organic Carbon (%)	6.07	4.6
Soil Organic Matter (%)	6.09	7.9
Visible Contaminants (%)	Total Visible contaminants	0.0
	Plastic Visible contaminants	0.0
	Sharps Visible contaminants	0.0

Comments: (including details of weeds and other visible contaminants - all comments are beyond the scope of our accreditation)

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All limits are taken from BS 3882:2015

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Your Ref: 406/02/084/SC

Soil Analysis Report

(Analysed in accordance with BS 3882:2015)

Client:	Parchow Groundworks	Submitted By:	Client
Sample Lab Reference:	Job: 24-40541-Samp. 130259	Date Received:	5 February 2024
Site Details:	406 North Street, Emsworth, PO10 7DA	Date Analysis Started:	5 February 2024
Sample Point:	Plot 31C Topsoil	Date Completed:	13 February 2024
Date Sampled:	Not Supplied		
Sampled By:	Client		
Sample Description:	Soil - Sandy Loam		

Table 1 : Soil Texture (% m/m)

Texture	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
Clay Content (%)	5.05	10		5 - 35				
Silt Content (%)	5.05	20		0 - 65				
Sand Content (%)	5.05	70		30 - 85				
Soil Texture Class	5.05	Sandy loam		Note: see soil texture triangle in BS3882:2015 for allowed soils				

Table 2 : Mass Loss on Ignition (%)

Clay percentage	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
Clay (5 - 20 %)	6.09	6.5	3 - 20	3 - 30	3 - 30	2 - 20	2 - 20	2 - 20
Clay (20 - 35 %)	6.09		5 - 20	5 - 30	5 - 30	2 - 20	2 - 20	2 - 20

Table 3 : Maximum Coarse Fragment Content (% (m/m))

Particle size	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
			Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
> 2 mm	6.2		0 - 30				
> 20 mm	0.0		0 - 10				
> 50 mm	0		0				

Table 4 : Chemical Analysis (air-dried, sieved (<2 mm) soil)

Analyte	Dev. code	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
					Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
soil pH Value ^M	AD	5.06, 603	7.44 *	5.5 - 8.5	3.5 - 5.5	7.5 - 9.0	3.5 - 9.0	3.5 - 5.5	7.5 - 9.0
Calcium Carbonate (%)		6.07	0.9	-	-	> 1	-	-	> 1

Our Ref: 24-40541
Your Ref: 406/02/084/SC

Table 5 : Available Plant Nutrient Content

Analyte	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert. Acidic	Low Fert. Calc.
Nitrogen (% m/m)		0.55	> 0.15	> 0.15	> 0.15	-	-	-
Extractable Phosphate (mg/l)	6.08	71.7	16 - 140	16 - 140	16 - 140	< 20	< 20	< 20
Extractable Potassium (mg/l)	6.08	904	121 - 1500	121-1500	121-1500	-	-	-
Extractable Magnesium (mg/l)	6.08	173	51 - 600	51 - 600	51 - 600	-	-	-
Carbon:Nitrogen Ratio		9.7	< 20:1	< 20:1	< 20:1	< 35:1	< 35:1	< 35:1
Soil Electrical Conductivity		445.0	< 3300	-				
Exchangeable Sodium (%) 1)	6.08	1.60	< 15					

1) Need be measured only if the electrical conductivity is greater than 2800 us/cm

Table 6 : Phytotoxic Contaminants (by soil pH) (mg/kg) analyses carried out on air dried samples

	Dev. code	Method	Sample	Multipurpose and Specific purpose Topsoils		
Soil pH Range				< 6.0	6.0 - 7.0	> 7.0
Zinc ^M	AD	5.18 & 6.08	651 *	< 200	< 200	< 300
Copper ^M	AD	5.18 & 6.08	27 *	< 100	< 135	< 200
Nickel ^M	AD	5.18 & 6.08	12 *	< 60	< 75	< 110

Table 7 : Additional Physical characteristics

	Method	Sample
Water Content (%)	6.01	14.8
Total Organic Carbon (%)	6.07	5.2
Soil Organic Matter (%)	6.09	9.0
Visible Contaminants (%)	Total Visible contaminants	0.0
	Plastic Visible contaminants	0.0
	Sharps Visible contaminants	0.0

Comments: (including details of weeds and other visible contaminants - all comments are beyond the scope of our accreditation)

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All limits are taken from BS 3882:2015

Our Ref: 24-40541
Your Ref: 406/02/084/SC

Soil Analysis Report

(Analysed in accordance with BS 3882:2015)

Client:	Parchow Groundworks	Submitted By:	Client
Sample Lab Reference:	Job: 24-40541-Samp. 130260	Date Received:	5 February 2024
Site Details:	406 North Street, Emsworth, PO10 7DA	Date Analysis Started:	5 February 2024
Sample Point:	Plot 31D Topsoil	Date Completed:	13 February 2024
Date Sampled:	Not Supplied		
Sampled By:	Client		
Sample Description:	Soil - Sandy Loam		

Table 1 : Soil Texture (% m/m)

Texture	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
Clay Content (%)	5.05	10		5 - 35				
Silt Content (%)	5.05	20		0 - 65				
Sand Content (%)	5.05	70		30 - 85				
Soil Texture Class	5.05	Sandy loam		Note: see soil texture triangle in BS3882:2015 for allowed soils				

Table 2 : Mass Loss on Ignition (%)

Clay percentage	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
Clay (5 - 20 %)	6.09	7.2	3 - 20	3 - 30	3 - 30	2 - 20	2 - 20	2 - 20
Clay (20 - 35 %)	6.09		5 - 20	5 - 30	5 - 30	2 - 20	2 - 20	2 - 20

Table 3 : Maximum Coarse Fragment Content (% (m/m))

Particle size	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
			Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
> 2 mm	7.7		0 - 30				
> 20 mm	0.0		0 - 10				
> 50 mm	0		0				

Table 4 : Chemical Analysis (air-dried, sieved (<2 mm) soil)

Analyte	Dev. code	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
					Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
soil pH Value ^M	AD	5.06, 603	7.37 *	5.5 - 8.5	3.5 - 5.5	7.5 - 9.0	3.5 - 9.0	3.5 - 5.5	7.5 - 9.0
Calcium Carbonate (%)		6.07	0.6	-	-	> 1	-	-	> 1

Our Ref: 24-40541
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Table 5 : Available Plant Nutrient Content

Analyte	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert. Acidic	Low Fert. Calc.
Nitrogen (% m/m)		0.55	> 0.15	> 0.15	> 0.15	-	-	-
Extractable Phosphate (mg/l)	6.08	145	16 - 140	16 - 140	16 - 140	< 20	< 20	< 20
Extractable Potassium (mg/l)	6.08	676	121 - 1500	121-1500	121-1500	-	-	-
Extractable Magnesium (mg/l)	6.08	184	51 - 600	51 - 600	51 - 600	-	-	-
Carbon:Nitrogen Ratio		9.7	< 20:1	< 20:1	< 20:1	< 35:1	< 35:1	< 35:1
Soil Electrical Conductivity		366.0	< 3300	-				
Exchangeable Sodium (%) 1)	6.08	1.04	< 15					

1) Need be measured only if the electrical conductivity is greater than 2800 us/cm

Table 6 : Phytotoxic Contaminants (by soil pH) (mg/kg) analyses carried out on air dried samples

	Dev. code	Method	Sample	Multipurpose and Specific purpose Topsoils		
Soil pH Range				< 6.0	6.0 - 7.0	> 7.0
Zinc ^M	AD	5.18 & 6.08	82 *	< 200	< 200	< 300
Copper ^M	AD	5.18 & 6.08	26 *	< 100	< 135	< 200
Nickel ^M	AD	5.18 & 6.08	13 *	< 60	< 75	< 110

Table 7 : Additional Physical characteristics

	Method	Sample
Water Content (%)	6.01	29.4
Total Organic Carbon (%)	6.07	5.2
Soil Organic Matter (%)	6.09	9.0
Visible Contaminants (%)	Total Visible contaminants	0.0
	Plastic Visible contaminants	0.0
	Sharps Visible contaminants	0.0

Comments: (including details of weeds and other visible contaminants - all comments are beyond the scope of our accreditation)

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All limits are taken from BS 3882:2015

Our Ref: 24-40541
Your Ref: 406/02/084/SC

Soil Analysis Report

(Analysed in accordance with BS 3882:2015)

Client:	Parchow Groundworks	Submitted By:	Client
Sample Lab Reference:	Job: 24-40541-Samp. 130261	Date Received:	5 February 2024
Site Details:	406 North Street, Emsworth, PO10 7DA	Date Analysis Started:	5 February 2024
Sample Point:	Plot 31E Topsoil	Date Completed:	13 February 2024
Date Sampled:	Not Supplied		
Sampled By:	Client		
Sample Description:	Soil - Sandy Loam		

Table 1 : Soil Texture (% m/m)

Texture	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
Clay Content (%)	5.05	10		5 - 35				
Silt Content (%)	5.05	20		0 - 65				
Sand Content (%)	5.05	70		30 - 85				
Soil Texture Class	5.05	Sandy loam		Note: see soil texture triangle in BS3882:2015 for allowed soils				

Table 2 : Mass Loss on Ignition (%)

Clay percentage	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
Clay (5 - 20 %)	6.09	5.7	3 - 20	3 - 30	3 - 30	2 - 20	2 - 20	2 - 20
Clay (20 - 35 %)	6.09		5 - 20	5 - 30	5 - 30	2 - 20	2 - 20	2 - 20

Table 3 : Maximum Coarse Fragment Content (% (m/m))

Particle size	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
			Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
> 2 mm	10.6		0 - 30				
> 20 mm	0.0		0 - 10				
> 50 mm	0		0				

Table 4 : Chemical Analysis (air-dried, sieved (<2 mm) soil)

Analyte	Dev. code	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
					Acidic	Calcareous	Low Fertility	Low Fert.Acidic	Low Fert. Calc.
soil pH Value ^M	AD	5.06, 603	7.28 *	5.5 - 8.5	3.5 - 5.5	7.5 - 9.0	3.5 - 9.0	3.5 - 5.5	7.5 - 9.0
Calcium Carbonate (%)		6.07	1.6	-	-	> 1	-	-	> 1

Our Ref: 24-40541
Your Ref: 406/02/084/SC

Table 5 : Available Plant Nutrient Content

Analyte	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert. Acidic	Low Fert. Calc.
Nitrogen (% m/m)		0.76	> 0.15	> 0.15	> 0.15	-	-	-
Extractable Phosphate (mg/l)	6.08	136	16 - 140	16 - 140	16 - 140	< 20	< 20	< 20
Extractable Potassium (mg/l)	6.08	610	121 - 1500	121-1500	121-1500	-	-	-
Extractable Magnesium (mg/l)	6.08	189	51 - 600	51 - 600	51 - 600	-	-	-
Carbon:Nitrogen Ratio		16.8	< 20:1	< 20:1	< 20:1	< 35:1	< 35:1	< 35:1
Soil Electrical Conductivity		452.0	< 3300	-				
Exchangeable Sodium (%) 1)	6.08	0.971	< 15					

1) Need be measured only if the electrical conductivity is greater than 2800 us/cm

Table 6 : Phytotoxic Contaminants (by soil pH) (mg/kg) analyses carried out on air dried samples

	Dev. code	Method	Sample	Multipurpose and Specific purpose Topsoils		
Soil pH Range				< 6.0	6.0 - 7.0	> 7.0
Zinc ^M	AD	5.18 & 6.08	81 *	< 200	< 200	< 300
Copper ^M	AD	5.18 & 6.08	27 *	< 100	< 135	< 200
Nickel ^M	AD	5.18 & 6.08	11 *	< 60	< 75	< 110

Table 7 : Additional Physical characteristics

	Method	Sample
Water Content (%)	6.01	21.6
Total Organic Carbon (%)	6.07	12.7
Soil Organic Matter (%)	6.09	21.8
Visible Contaminants (%)	Total Visible contaminants	0.0
	Plastic Visible contaminants	0.0
	Sharps Visible contaminants	0.0

Comments: (including details of weeds and other visible contaminants - all comments are beyond the scope of our accreditation)

Results marked with an asterisk (*) are non conforming due to sampling handling time or conditions. Therefore, the result may be invalid.
All limits are taken from BS 3882:2015

Method Summaries:-

- 5.01 - Soil sample pre-treatment, air-drying, crushing, sieving and subdividing (BS ISO 11464:2006)
- 5.02 - Solvent extraction (acetone/heptane) of soils for hydrocarbon analyses (BS 16703:2004)
- 5.04 - Aqueous leaching of soil and waste samples (BS 12457-2:2002)
- 5.05 - Soil texture classification
- 5.06 - Aqueous extraction of dried soils/sludges/waste in a ration of 2.5:1 (BS 1377-3:1990 Section 9)
- 5.18 - Digestion of solid samples in aqua-regia using hot-block for metals analysis (EPA 200.2 rev.2.8)
- 6.01 - Gravimetric determination of water content of solid samples by oven drying at 105°C.(BS 7755-3.1:1995)
- 6.02 - Determination of anions by ion chromatography (EPA 300.1 1999)
- 6.03 - Determination of pH in aqueous samples and extracts by pH electrode.
- 6.04 - Determination of petroleum hydrocarbons by Gas chromatography of solvent extracts (FID) (BS 16703:2004)
- 6.05 - Determination of poly-aromatic- hydrocarbons by gas chromatography linked mass spectrometry (GC-MS)
- 6.06 - Determination of poly-chlorinated-biphenyls (PCBs) by gas chromatography linked mass spectrometry (GC-MS)
- 6.07 - Determination of dissolved organic carbon (DOC) and total organic carbon (TOC) by furnace combustion and infra-red detection of carbon dioxide.
- 6.08 - Determination of metals in digests and leachates by inductively coupled plasma optical emission spectrophotometry (ICP-OES) (EPA 6010C)
- 6.09 - Determination of loss on ignition by gravimetry and combustion in muffle furnace

Deviating Codes:

- A - No sample date provided
- B - No Sample time provided (water samples only)
- C - Incorrect sample container
- D - Incorrect storage temperature
- E - Insufficient sample
- F - Time from sampling to receipt exceeded
- G - Time from sampling to analysis exceeded
- P - No sample preservative (for bacti samples only)
- N - No temperature recorded

