



For the attention of
John Reilly Civil Engineering Ltd
103 Desborough Road

Mr. J. O'Connor

www.acstesting.co.uk

Eastleigh
Hampshire
SO50 5NT

JOHN REILLY C E LTD

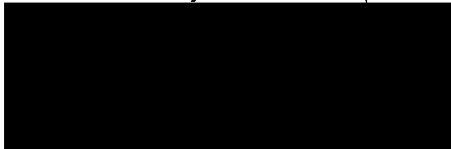
30/04/2009

Dear Mr. J. O'Connor

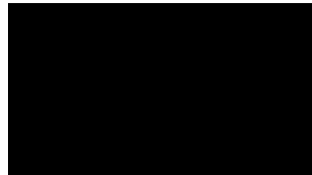
Please find enclosed our certificates of test.

If you require further assistance, please do not hesitate to contact us at our Head Office address.

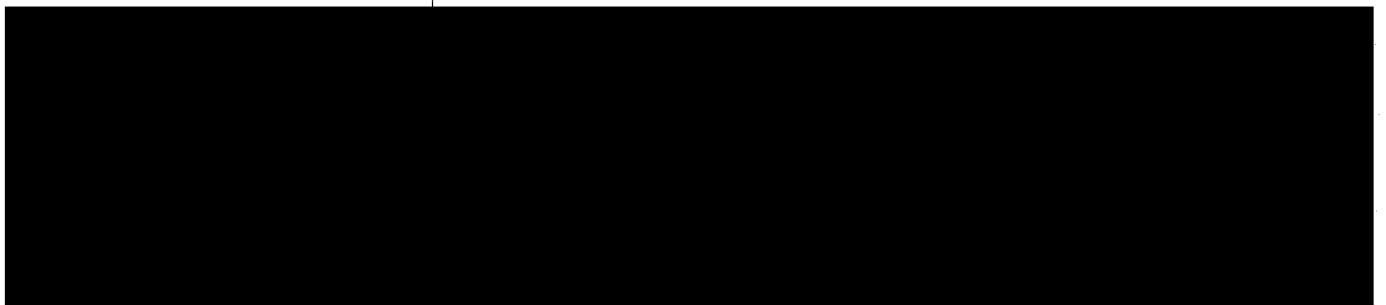
Yours sincerely



☐ S J White *Head of Laboratories*
☐ A Bates *Laboratory Manager*
☐ K Tiller *Technical Manager*
☐ D Faulkner *Quality Manager*
☒ M Slater *Senior Technician*
Approved Signatories



C.C.



01243264621



CERTIFICATE OF SAMPLING - SOIL MATERIAL

Laboratory reference no(s) :	H / 29061 / 001	Head Office Certificate No : S1/H /29061 /001
Client :	John Reilly Civil Engineering Ltd	
Certificate address :	103 Desborough Road, Eastleigh Hampshire SO50 5NT	
Contract :	Rose Green Road Bognor Regis	
Source of material (as indicated by client) :	Ex-site	
Client reference/data :	Bulk Sample 1	
Material description :	Topsoil	
Analysis required :	Classification of Topsoil	
Client's indicated specification(s) :	BS 3882	

Material type :	Soil	Nominal dimension :	20	mm
Date sampled :	16/04/2009	Time sampled :	9.20	
Sampled by :	EW			
Location of sample on site :	Stockpile			
Type of sample :	Disturbed	Sampling plan :	n/a	
Site sample no :	D2906	Total mass rec'd :	18.200	kg
Variation from sampling procedure :	n/a			
Comments on sample: (e.g. contamination/excess moisture/organic deposit)	None			
Weather conditions :	Cloudy	Air temperature :	DNR	°C
Remarks :	None			

Approved Signatories : [] S J White Head of Laboratories [] A Bates Laboratory Manager []	Approved : [Redacted Signature]	Date : 22/04/2009
		Stuart Senior Technician

Bulk samples shall be retained for a maximum of 28 days after completion of testing, unless written notice is received within 14 days of certification requesting sample retention

Page 1 of 1

Head Office
Unit 14
Blackhill Road West
Holton Heath Trading Park
Poole
Dorset BH16 6LE
Tel 01202 622858
Fax 01202 625045

Registered Office
Unit 14
Blackhill Road West
Holton Heath Trading Park
Poole
Dorset BH16 6LE
ACS Testing Limited
Registered in England and
Wales No. 4639658

Quality Testing & Materials Consultancy
to the
Construction Industry

01243264621

CERTIFICATE OF SAMPLING - SOIL MATERIAL

Laboratory reference no(s) :	H / 29061 / 002	Head Office Certificate No : S1/H /29061 /002
Client :	John Reilly Civil Engineering Ltd	
Certificate address :	103 Desborough Road, Eastleigh Hampshire SO50 5NT	
Contract :	Rose Green Road Bognor Regis	
Source of material (as indicated by client) :	Ex-site	
Client reference/data :	Bulk Sample 2	
Material description :	Topsoil	
Analysis required :	Classification of Topsoil	
Client's indicated specification(s) :	BS 3882	

Material type :	Soil	Nominal dimension :	20	mm
Date sampled :	16/04/2009	Time sampled :	9.40	
Sampled by :	EW			
Location of sample on site :	Stockpile			
Type of sample :	Disturbed	Sampling plan :	n/a	
Site sample no :	D2907	Total mass rec'd :	17.600	kg
Variation from sampling procedure :	n/a			
Comments on sample: (e.g. contamination/excess moisture/organic deposit)	None			
Weather conditions :	Cloudy	Air temperature :	DNR	°C
Remarks :	None			

Approved Signatories : [] S J White Head of Laboratories [] A Bates Laboratory Manager [] K Tiller Technical Manager [] M Slater Senior Technician

Approved : 22/04/2009

Bulk samples shall be retained for a maximum of 28 days after completion of testing, unless written notice is received within 14 days of certification requesting sample retention

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Laboratory Test Report - TOPSOIL ANALYSIS

ACSE Sample Ref: E/1679/1
 Client: ACS Testing Ltd
 Source of Material: Ex-Site
 Date Sampled: 16.04.09
 Date Received: 17.04.09
 Material Description: Topsoil

HI/29061/1

Page: 1 of 1

Contract: Rose Green Road, Bognor Regis
 Client Ref: Bulk Sample 1 - D2906
 Sampled By: EW
 Location: Stockpile

Specification for BS 3882 : 2007

Soil Texture:	Method	Unit	AS	Result
Clay Content	SC	%	\$#	9
Silt Content	SC	%	\$#	37
Sand Content	SC	%	\$#	28

Soil Organic Matter Content:

Clay 5 - 20%	IHP	%	†*	3.6
Clay 20 - 35%	IHP	%	†*	N/A

Maximum Coarse Fragment Content:

>2 mm	SC	%	\$#	26
>20 mm	SC	%	\$#	6
>50 mm	SC	%	\$#	0

pH

Carbonate	AE07	pH Units	†	7.6
	SC	%	\$#	39

Available Plant Nutrient Content:

Nitrogen	SC	%	\$#	<0.001
Phosphorus	AE16	mg/l	†*	2120
Potassium	AE16	mg/l	†*	1396
Magnesium	AE16	mg/l	†*	2681

Iron:Nitrogen Ratio

Exchangeable Sodium Percentage	Calculation	%	†*	2088:1
	SC	%	\$#	N/A

Phytotoxic Contaminants (by soil pH):

Oil pH Range	AE16	mg/kg	†	54
Lead	AE16	mg/kg	†	13
Copper	AE16	mg/kg	†	10
Nickel	AE16	mg/kg	†	10

Sable Contaminants:

mm	SC	%	\$#	0
Plastics	SC	%	\$#	0
Sharps	SC	%	\$#	0

Additional Analysis:

Conductivity	AE07	us/cm	†	1947
Fluoride	AE14	mg/kg	†	<0.01

AS = Accreditation Status * denotes analyses not covered by our UKAS accreditation.
 SC=Sub Contracted S denotes analyses not covered by sub-contractors UKAS accreditation.

Approved :

Report Date: 30/04/2009

Approved Signature: [Signature] J M Rowley Laboratory Manager [] D Faulkner Quality Manager

ACSE Environmental Testing Ltd - Unit 14B, Blackhill Road West, Holton Heath Trading Park, Poole, Dorset BH16 6LE

Registered in England & Wales No. 6000065



Multipurpose Topsoil

Specific Purpose

Acidic

Low Fertility

Calcareous

5 - 35

0 - 65

30 - 85

3 - 20

5 - 20

3 - 30

3 - 30

1 - 10

1 - 10

0 - 30

0 - 10

0

3.5 - 5.5

3.5 - 9.0

7.5 - 9.0

>1

≥0.15

≥0.15

16 - 100

16 - 100

121 - 900

121 - 900

51 - 600

51 - 600

<0.1

<0.1

<15

<15

<200

<200

<100

<135

<60

<75

<0.5

<0.25

zero in 1kg air-dried soil

† denotes analyses not covered by our MCERTS accreditation.
 # denotes analyses not covered by sub-contractors MCERTS accreditation
 IHP = In House Procedure / Calculation
 Method AE16 = ICP/OES Analysis

Laboratory Test Reoprt - TOPSOIL ANALYSIS

ACSE Sample Ref: E/1679/2
 Client: ACS Testing Ltd
 Source of Material: Ex-Site
 Date Sampled: 16.04.09
 Date Received: 17.04.09
 Material Description: Topsoil

H/29061/2

Page: 1 of 1
Contract: Rose Gr
Client Ref: Bulk San
Sampled By: EW
Location: Stockpile

Contract: Rose Green Road, Bognor Regis
Client Ref: Bulk Sample 2 - D2907
Sampled By: EW
Location: Stockpile



Laboratory Test Reoprt - TOPSOIL ANALYSIS

Soil Texture:	Method	Unit	AS	Result
Clay Content				
Silt Content	SC	%	\$#	8
Sand Content	SC	%	\$#	41
Soil Organic Matter Content:				
Clay 5 - 20%				26
Clay 20 - 35%	IHP	%	†*	4.7
	IHP	%	†*	N/A
Maximum Coarse Fragment Content:				
>2 mm				
>20 mm	SC	%	\$#	25
>50 mm	SC	%	\$#	5
pH	SC	%	\$#	0
Carbonate	AE07	pH Units	†	7.5
	SC	%	\$#	46
Available Plant Nutrient Content:				
Nitrogen				
Phosphorus	SC	%	\$#	<0.001
Potassium	AE16	mg/l	†*	2073
	AE16	mg/l	†*	1319
Magnesium	AE16	mg/l	†*	2587
Carbon:Nitrogen Ratio				
Exchangeable Sodium Percentage	Calculation	%	†*	2726:1
	SC	%	\$#	N/A
ytotoxic Contaminants (by soil pH):				
il pH Range				
al Zinc				
al Copper	AE16	mg/kg	†	53
al Nickel	AE16	mg/kg	†	12
	AE16	mg/kg	†	10
able Contaminants:				
mm				
astics	SC	%	\$#	0
Sharps	SC	%	\$#	0
	SC	%	\$#	0
Additional Analysis:				
Conductivity	AE07	us/cm	†	1922
Fluoride	AE14	mg/kg	†*	<0.01

AS = Accreditation Status denotes analyses not covered by our UKA's accreditation.
SC=Sub Contractor 'S denotes analyses not covered by sub-contractors UKA's accreditation

Approved :

Report Date: 30/04/2009

Approved Signatories : [] S J White *Managing Director* [] M Rowley *Laboratory Manager* [] D Faulkner *Quality Manager*

POOLE ENVIRONMENTAL TESTING LTD - Unit 14B, Blackhill Road West, Holton Heath Trading Park, Poole, Dorset BH16 6LE

Specification for BS 3882 : 2007

Specification for DO 3502 : 2007			
Multipurpose Topsoil	Acidic	Specific Purpose Low Fertility	Calcareous
	5-35		
	0-65		
	30-85		
3-20	3-30	1-10	3-30
5-20	3-30	1-10	5-30
	0-30		
	0-10		
	0		
5.5-8.5	3.5-5.5	3.5-9.0	7.5-9.0
-	-	-	>1
≥0.15	≥0.15	<0.1	≥0.15
16-100	16-100	<15	16-100
121-900	121-900	<120	121-900
51-600	51-600	<600	51-600
	<20:1		
	<15		
Multipurpose and Specific Purpose Topsoils			
	6.0-7.0		>7
<6			
<200	<200		<300
<100	<135		<200
<60	<75		<110
	<0.5		
	<0.25		
	zero in 1kg air-dried soil		

† denotes analyses not covered by our MCERT's accreditation.
denotes analyses not covered by sub-contractors MCERT's accreditation
HHP = In House Procedure / Calculation
Method AE 16 = ICP/OES Analysis

Registered in England & Wales No. 5000000