

APPENDIX A

Report Conditions

WHITE YOUNG GREEN

APPENDIX A - REPORT CONDITIONS (STAGE 2)

GROUND INVESTIGATION

This report is produced solely for the benefit of Hampshire County Council and their Consultant Partners and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise. This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of future changes in the condition of the site as characteristics, especially liquid and gaseous materials, are likely to vary with time.

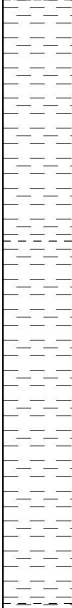
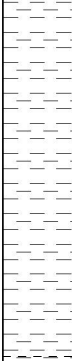
This report is based on readily available geological records, the recorded physical investigation, the strata observed in the works, together with the results of completed site and laboratory tests. Whilst skill and care has been taken to interpret these conditions likely between or below investigation points, the possibility of other characteristics not revealed cannot be discounted, for which no liability can be accepted. The impact of our assessment on other aspects of the development requires evaluation by other involved parties.

Whilst confident in the findings detailed within this report because ground investigation is not an exact science, subject to risk analysis, we are unable to give categoric assurances that they will be accepted by others as they may have differing objectives. This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to WYG. In time improved practices or amended legislation may necessitate a re-assessment.

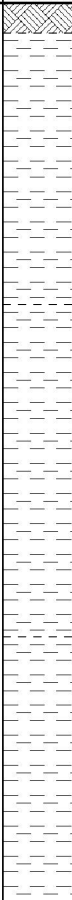
The opinions expressed cannot be absolute due to the limitations of time and resources within the context of the agreed brief and the possibility of unrecorded previous in ground activities.

APPENDIX B

Engineering Logs

	WHITE YOUNG GREEN ENVIRONMENTAL		Window Sample Log						
			Location Reference		WS1 Sheet 1 of 1				
	Job Number: A050917 Project: Meadowlands Junior and Infant Schools Site Location: 35, Woodcroft Lane, Lovedean, Portsmouth Client: Hampshire County Council		Co-ordinates: Ground Level: Start Date: 06/10/2008 Finish Date: 06/10/2008 Logged By: Z. Bella Drilled By: K. Lappage Method: Terrier Rig						
Stratum Description	Legend	Reduced Level (mOD)	Depth (m)	Casing Diameter (mm) Depth(m)	Water Strike (m)	Installation and Backfill Details	Samples and In Situ Testing		
							Depth (m)	Type	In Situ Test Results
(TOPSOIL) Soft brown sandy slightly gravelly CLAY/SILT. Sand is fine, gravel is subangular to angular fine flint. Abundant roots and rootlets. Very soft light orange and grey slightly sandy CLAY/SILT with occasional gravels. Sand is fine gravel is subangular to angular fine flint. (HEAD)			0.15				0.00 0.05	ES D	N=4 (1,1,1,1,1,1)
							0.80	D	
							1.00 1.00	S D	
Firm grey and orange mottled red CLAY/SILT. (READING FORMATION)			2.00				2.00	S	N=11 (2,2,2,3,3,3)
							2.50	D	
Firm orange and yellow mottled red CLAY/SILT. (READING FORMATION)			2.80				3.00	S	N=13 (1,2,2,3,3,5)
							3.70	D	
Window Sample hole completed at 4.00 m			4.00				4.00	S	N=30 (6,6,6,7,8,9)
<u>Installation/ Backfill Details:</u> Backfilled with arisings. No groundwater encountered.				Groundwater Observations During Drilling					
<u>Additional Observations:</u>				Strike encountered at depth (m)	Casing Depth (m)	Rising to depth (m)	Over monitoring period (mins)	Depth sealed by casing (m)	
				Checked			Verified		

	WHITE YOUNG GREEN ENVIRONMENTAL				Window Sample Log				
					Location Reference WS2 Sheet 1 of 1				
	Job Number: A050917 Project: Meadowlands Junior and Infant Schools Site Location: 35, Woodcroft Lane, Lovedean, Portsmouth Client: Hampshire County Council				Co-ordinates: Ground Level: Start Date: 06/10/2008 Finish Date: 06/10/2008 Logged By: Z. Bella Drilled By: K. Lappage Method: Terrier Rig				
Stratum Description	Legend	Reduced Level (mOD)	Depth (m)	Casing Diameter (mm) Depth(m)	Water Strike (m)	Installation and Backfill Details	Samples and In Situ Testing		
							Depth (m)	Type	In Situ Test Results
(TOPSOIL) Soft brown slightly gravelly CLAY/SILT. Gravel is subangular to angular fine to medium flint.			0.10				0.00 0.10	ES D	
Soft orange and light brown CLAY/SILT with rare subangular to angular gravel flint. (HEAD)			0.70						
Soft to firm light brown, grey and orange slightly gravelly CLAY/SILT. Gravel is subangular to angular fine to medium flint. (HEAD)			1.00				0.80 1.00	D S	N=4 (1,1,1,1,1,1)
Very stiff grey and orange CLAY/SILT. (READING FORMATION)			1.60						
Firm grey and orange mottled red CLAY/SILT. (READING FORMATION)							1.80 2.00	D S	N=11 (2,2,3,2,3,3)
...by 3.0mbgl, becomes stiff.							2.70 3.00	D S	N=17 (2,2,4,4,4,5)
Window Sample hole completed at 4.00 m			4.00				4.00	S	N=19 (2,3,4,4,5,6)
<u>Installation/ Backfill Details:</u> Backfilled with arisings. No groundwater encountered.				Groundwater Observations During Drilling					
<u>Additional Observations:</u>				Strike encountered at depth (m)	Casing Depth (m)	Rising to depth (m)	Over monitoring period (mins)	Depth sealed by casing (m)	
				Checked				Verified	

	WHITE YOUNG GREEN ENVIRONMENTAL		Window Sample Log						
			Location Reference		WS3 Sheet 1 of 1				
	Job Number: A050917 Project: Meadowlands Junior and Infant Schools Site Location: 35, Woodcroft Lane, Lovedean, Portsmouth Client: Hampshire County Council		Co-ordinates: Ground Level: Start Date: 06/10/2008 Finish Date: 06/10/2008 Logged By: Z. Bella Drilled By: K.Lappage Method: Terrier Rig						
Stratum Description	Legend	Reduced Level (mOD)	Depth (m)	Casing Diameter (mm) Depth(m)	Water Strike (m)	Installation and Backfill Details	Samples and In Situ Testing		
							Depth (m)	Type	In Situ Test Results
(TOPSOIL) Soft brown sandy slightly gravelly CLAY/SILT. Sand is fine, gravel is subangular to angular fine flint. Abundant roots and rootlets. Soft light brown and grey mottled orange slightly gravelly CLAY/SILT. Gravel is subangular to angular fine to medium flint. (HEAD)			0.10				0.00	ES	N=5 (1,1,1,1,1,2)
						0.10	D		
						0.80	D		
						1.00	S		
						1.80	D		
Soft to firm light grey mottled orange and red slightly gravelly CLAY/SILT. Gravel is subangular to angular fine flint. (HEAD)			1.00				2.00	S	N=8 (2,2,1,2,3,2)
							2.50	D	
			2.10				3.00		N=20 (4,4,4,5,5,6)
Firm to stiff grey mottled orange and yellow and dark red CLAY/SILT with rare subangular to angular fine gravel flint. (HEAD/READING FORMATION?)									
			3.00						
Window Sample hole completed at 3.00 m									
Installation/ Backfill Details: Backfilled with arisings. No groundwater encountered.				Groundwater Observations During Drilling					
Additional Observations:				Strike encountered at depth (m)	Casing Depth (m)	Rising to depth (m)	Over monitoring period (mins)	Depth sealed by casing (m)	
				Checked			Verified		

	WHITE YOUNG GREEN ENVIRONMENTAL		Window Sample Log						
	Job Number: A050917 Project: Meadowlands Junior and Infant Schools Site Location: 35, Woodcroft Lane, Lovedean, Portsmouth Client: Hampshire County Council		Location Reference: WS4 Sheet 1 of 1 Co-ordinates: Ground Level: Start Date: 06/10/2008 Finish Date: 06/10/2008 Logged By: Z. Bella Drilled By: K. Lappage Method: Terrier Rig						
Stratum Description	Legend	Reduced Level (mOD)	Depth (m)	Casing Diameter (mm) Depth(m)	Water Strike (m)	Installation and Backfill Details	Samples and In Situ Testing		
							Depth (m)	Type	In Situ Test Results
(TOPSOIL) very soft light brown slightly sandy, slightly gravelly CLAY/SILT. Sand is fine, gravel is subangular to angular fine to medium flint.			0.20				0.00 0.15	ES D	N=4 (1,1,1,1,1,1)
Very soft light grey and orange slightly gravelly CLAY/SILT. Sand is fine, gravel is subangular to angular, fine to medium flint. (HEAD)			1.10				0.70 0.70	D D	
Soft light grey mottled orange and red slightly gravelly CLAY/SILT. Gravel is subangular to angular fine to medium flint. (HEAD)			2.00				1.00 1.20	S D	
NO RECOVERY			3.00				2.00	S	
Window Sample hole completed at 3.00 m							3.00	S	N=33 (7,6,6,9,9,9)
Installation/ Backfill Details: Backfilled with arisings. No groundwater encountered.				Groundwater Observations During Drilling					
Additional Observations:				Strike encountered at depth (m)	Casing Depth (m)	Rising to depth (m)	Over monitoring period (mins)	Depth sealed by casing (m)	
				Checked			Verified		

 Ground Engineering Services	WHITE YOUNG GREEN ENVIRONMENTAL		Window Sample Log						
	Job Number: A050917 Project: Meadowlands Junior and Infant Schools Site Location: 35, Woodcroft Lane, Lovedean, Portsmouth Client: Hampshire County Council		Location Reference: WS5 Sheet 1 of 1 Co-ordinates: Ground Level: Start Date: 06/10/2008 Finish Date: 06/10/2008 Logged By: Z. Bella Drilled By: K. Lappage Method: Terrier Rig						
Stratum Description	Legend	Reduced Level (mOD)	Depth (m)	Casing Diameter (mm) Depth(m)	Water Strike (m)	Installation and Backfill Details	Samples and In Situ Testing		
							Depth (m)	Type	In Situ Test Results
(TOPSOIL) Soft brown sandy slightly gravelly CLAY/SILT. Sand is fine, gravel is subangular to angular fine flint. Abundant roots and rootlets. Soft light brown and grey mottled orange slightly sandy, slightly gravelly CLAY/SILT. Sand is fine gravel is subangular to angular, fine to medium flint. (HEAD)	 		0.10				0.00	ES	N=7 (1,1,1,2,2,2)
			0.60				0.30	D	
Soft light brown and grey slightly gravelly CLAY/SILT. Gravel is subangular to angular, fine top medium flint. (HEAD)			1.00				0.70	D	
Firm to stiff very light grey mottled orange CLAY/SILT. (READING FORMATION)			2.00				1.00	S	
							1.20	D	
NO RECOVERY					1.80	D			
			3.00			2.00	S		N=14 (2,2,3,3,4,4)
Window Sample hole completed at 3.00 m						3.00	S		N=25 (6,6,5,6,7,7)
Installation/ Backfill Details: Backfilled with arisings. No groundwater encountered.				Groundwater Observations During Drilling					
Additional Observations:				Strike encountered at depth (m)	Casing Depth (m)	Rising to depth (m)	Over monitoring period (mins)	Depth sealed by casing (m)	
				Checked				Verified	

 Ground Engineering Services	WHITE YOUNG GREEN ENVIRONMENTAL		Window Sample Log						
			Location Reference WS6 Sheet 1 of 1						
Job Number: A050917 Project: Meadowlands Junior and Infant Schools Site Location: 35, Woodcroft Lane, Lovedean, Portsmouth Client: Hampshire County Council			Co-ordinates: Ground Level: Start Date: 07/10/2008 Finish Date: 07/10/2008 Logged By : Z. Bella Drilled By : K. Lappage Method: Terrier Rig						
Stratum Description	Legend	Reduced Level (mOD)	Depth (m)	Casing Diameter (mm) Depth(m)	Water Strike (m)	Installation and Backfill Details	Samples and In Situ Testing		
							Depth (m)	Type	In Situ Test Results
(TOPSOIL) Soft brown sandy slightly gravelly CLAY/SILT. Sand is fine, gravel is subangular to angular fine flint. Abundant roots and rootlets. Soft grey and orange slightly gravelly CLAY/SILT. Gravel is subangular to angular, fine to medium flint. (HEAD)			0.20				0.00	ES	
			0.15				D		
Stiff grey mottled red and orange CLAY/SILT. (READING FORMATION)			1.00				1.00	S	N=5 (1,1,1,1,2,1)
			1.10				D		
			1.60				D		
NO RECOVERY			2.00				2.00	S	N=16 (3,2,3,4,4,5)
Window Sample hole completed at 3.00 m			3.00				3.00	S	N=19 (4,4,5,5,4,5)
Installation/ Backfill Details: Backfilled with arisings. No groundwater encountered.				Groundwater Observations During Drilling					
Additional Observations:				Strike encountered at depth (m)	Casing Depth (m)	Rising to depth (m)	Over monitoring period (mins)	Depth sealed by casing (m)	
				Checked				Verified	



Window Sample Log

WS7

Sheet 1 of 1

Co-ordinates:
Ground Level:
Start Date: 07/10/2008 Finish Date: 07/10/2008
Logged By : Z. Bella
Drilled By : K. Lappage
Method: Terrier Rig

Stratum Description	Legend	Reduced Level (mOD)	Depth (m)	Casing Diameter (mm)	Water Strike (m)	Installation and Backfill Details	Samples and In Situ Testing		
				Depth(m)			Depth (m)	Type	In Situ Test Results
(TOPSOIL) Very soft light brown and orange slightly sandy, slightly gravelly CLAY/SILT. Sand is fine gravel is subangular to angular, fine to medium flint. Abundant roots and rootlets.			0.60				0.00	ES	
							0.20	D	
Soft to firm light brown gravelly CLAY/SILT. Gravel is subangular to angular fine to coarse flint. (HEAD)			1.20				0.80	D	N=6 (1,2,2,1,1,2)
							1.00	S	
Stiff light orange to grey CLAY/SILT. (READING FORMATION)			2.00				1.60	D	
							2.00	S	
Stiff grey and yellow mottled orange and dark red CLAY/SILT. (READING FORMATION)							2.70	D	
							3.00	S	
...becoming stiff by 3.0mbgl.							3.80	D	
							4.00	S	
Window Sample hole completed at 4.00 m									
<u>Installation/ Backfill Details:</u> Backfilled with arisings. No groundwater encountered. <u>Additional Observations:</u>				Groundwater Observations During Drilling					
				Strike encountered at depth (m)	Casing Depth (m)	Rising to depth (m)	Over monitoring period (mins)	Depth sealed by casing (m)	
				Checked		Verified			

 Ground Engineering Services	WHITE YOUNG GREEN ENVIRONMENTAL		Window Sample Log						
			Location Reference WS8 Sheet 1 of 1						
Job Number: A050917 Project: Meadowlands Junior and Infant Schools Site Location: 35, Woodcroft Lane, Lovedean, Portsmouth Client: Hampshire County Council			Co-ordinates: Ground Level: Start Date: 07/10/2008 Finish Date: 07/10/2008 Logged By : Z. Bella Drilled By : K. Lappage Method: Terrier Rig						
Stratum Description	Legend	Reduced Level (mOD)	Depth (m)	Casing Diameter (mm) Depth(m)	Water Strike (m)	Installation and Backfill Details	Samples and In Situ Testing		
							Depth (m)	Type	In Situ Test Results
(TOPSOIL) Soft brown sandy slightly gravelly CLAY/SILT. Sand is fine, gravel is subangular to angular fine flint. Abundant roots and rootlets. Soft orange and light brown CLAY/SILT with rare subangular to angular gravel flint. (HEAD)			0.10				0.00	ES	N=7 (1,1,1,2,2,2)
			0.30				D		
Soft to firm light grey mottled orange and red slightly gravelly CLAY/SILT. Gravel is subangular to angular fine flint. (HEAD)			1.10				1.00	S	
			1.80				D		
NO RECOVERY			2.00				2.00		N=14 (3,3,4,3,4,3)
			3.00						
Window Sample hole completed at 3.00 m							3.00	S	N=26 (6,6,6,6,7,7)
<u>Installation/ Backfill Details:</u> Backfilled with arisings. No groundwater encountered.				<u>Groundwater Observations During Drilling</u>					
<u>Additional Observations:</u>				Strike encountered at depth (m)	Casing Depth (m)	Rising to depth (m)	Over monitoring period (mins)	Depth sealed by casing (m)	
				Checked			Verified		

 Ground Engineering Services	WHITE YOUNG GREEN ENVIRONMENTAL		Window Sample Log						
			Location Reference WS9 Sheet 1 of 1						
	Job Number: A050917 Project: Meadowlands Junior and Infant Schools Site Location: 35, Woodcroft Lane, Lovedean, Portsmouth Client: Hampshire County Council		Co-ordinates: Ground Level: Start Date: 07/10/2008 Finish Date: 07/10/2008 Logged By: Z. Bella Drilled By: K. Lappage Method: Terrier Rig						
Stratum Description	Legend	Reduced Level (mOD)	Depth (m)	Casing Diameter (mm) Depth(m)	Water Strike (m)	Installation and Backfill Details	Samples and In Situ Testing		
							Depth (m)	Type	In Situ Test Results
(TOPSOIL) Soft brown sandy slightly gravelly CLAY/SILT. Sand is fine, gravel is subangular to angular fine flint. Abundant roots and rootlets.			0.15						
Stiff brown gravelly CLAY/SILT. Gravel is subangular to angular fine to medium flint. (HEAD)			0.70						
Firm grey mottled orange sandy CLAY/SILT. Sand is fine. (READING FORMATION)			2.10				1.00		N=8 (1,1,2,2,2,2)
Firm grey mottled red silty CLAY/SILT. (READING FORMATION)			4.00				2.00	S	N=11 (2,3,3,2,3,3)
...by 3.0mbgl becomes stiff.							3.00		N=21 (4,4,5,5,5,6)
Window Sample hole completed at 4.00 m							4.00	S	N=35 (7,7,8,9,9,9)
<u>Installation/ Backfill Details:</u> Backfilled with arisings. No groundwater encountered.				Groundwater Observations During Drilling					
<u>Additional Observations:</u>				Strike encountered at depth (m)	Casing Depth (m)	Rising to depth (m)	Over monitoring period (mins)	Depth sealed by casing (m)	
				Checked				Verified	

APPENDIX C

Geotechnical Testing Results



LABORATORY REPORT



4043

Contract Number: PSL08/2108

Client's Reference:

Report Date: 29 October 2008

Client Name: WYG Southampton
Empress House
12 Empress Road
Lyndhurst
Hampshire
SO43 7AE

For the attention of: Craig Morrison

Contract Title: Meadowlands Junior and Infants School.

Date Received: 20-Oct-08

Date Commenced: 20-Oct-08

Date Completed: 29-Oct-08

Notes: Observations and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory.

Approved Signatories:

R Gunson
(Director)

A Watkins
(Director)

A D'Rozario
(Quality Manager)


D Lambe
(Senior Technician)

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Borehole Number	Sample Number	Depth m	Description of Sample
WS1		1.00	Grey CLAY.
WS1		3.70	Reddish brown sandy CLAY.
WS2		0.80	Brown mottled grey slightly gravelly CLAY.
WS2		1.80	Brown slightly gravelly CLAY.
WS2		2.70	Pale brown slightly sandy CLAY.
WS4		0.70	Brown mottled grey CLAY.
WS4		1.20	Pale brown slightly sandy CLAY.
WS5		0.30	Brown slightly gravelly slightly sandy CLAY.
WS5		0.70	Pale brown gravelly sandy CLAY.
WS5		1.20	Pale brown slightly sandy CLAY.
WS5		1.80	Brown mottled grey slightly sandy CLAY.
WS7		0.80	Brown slightly gravelly slightly sandy CLAY.
WS7		1.60	Brown mottled grey CLAY.
WS7		2.70	Reddish brown slightly sandy CLAY.
WS7		3.80	Reddish brown slightly sandy CLAY.
WS8		1.80	Brown mottled grey slightly sandy CLAY.



Professional Soils Laboratory

Compiled by 

Date 27/10/08

Checked by 

Date 29/10/08

Approved by 

Date 29/10/08

MEADOWLANDS JUNIOR AND INFANTS SCHOOL.

Contract No: PSL08/2108

Client Ref: A050917

(B.S. 1377 : PART 3 : 1990 AND BRE CP2/79)

NCP -No Chloride present

 Approved By

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Bynea, Llanelli, SA14 9SU.

SUMMARY OF SOIL CLASSIFICATION TESTS

(B.S. 1377 : PART 2 : 1990)

Borehole Number	Sample Number	Depth m	Moisture Content % Clause 3.2	Bulk Density Mg/m ³ Clause 7.2	Dry Density Mg/m ³ Clause 7.2	Particle Density Mg/m ³ Clause 8.	Liquid Limit % Clause 4.3/4.4	Plastic Limit % Clause 5.	Plasticity Index % Clause 5.	% Passing .425mm	Remarks
WS1		1.00	39				73	28	45	100	Very high plasticity CV.
WS1		3.70	16				47	18	29	100	Intermediate plasticity CI.
WS2		0.80	41				70	30	40	96	High plasticity CH.
WS2		1.80	47				72	32	40	96	Very high plasticity CV.
WS2		2.70	26				58	22	36	100	High plasticity CH.
WS4		0.70	29				74	26	48	100	Very high plasticity CV.
WS4		1.20	24				63	22	41	100	High plasticity CH.
WS5		0.30	37				78	33	45	93	Very high plasticity CV.
WS5		0.70	35								
WS5		1.20	33								
WS5		1.80	30								
WS7		0.80	26				67	26	41	96	High plasticity CH.
WS7		1.60	35				75	30	45	100	Very high plasticity CV.
WS7		2.70	19				58	19	39	100	High plasticity CH.
WS7		3.80	21				55	19	36	100	High plasticity CH.
WS8		1.80	26				69	24	45	100	High plasticity CH.

SYMBOLS : NP : Non Plastic

* : Liquid Limit and Plastic Limit Wet Sieved.

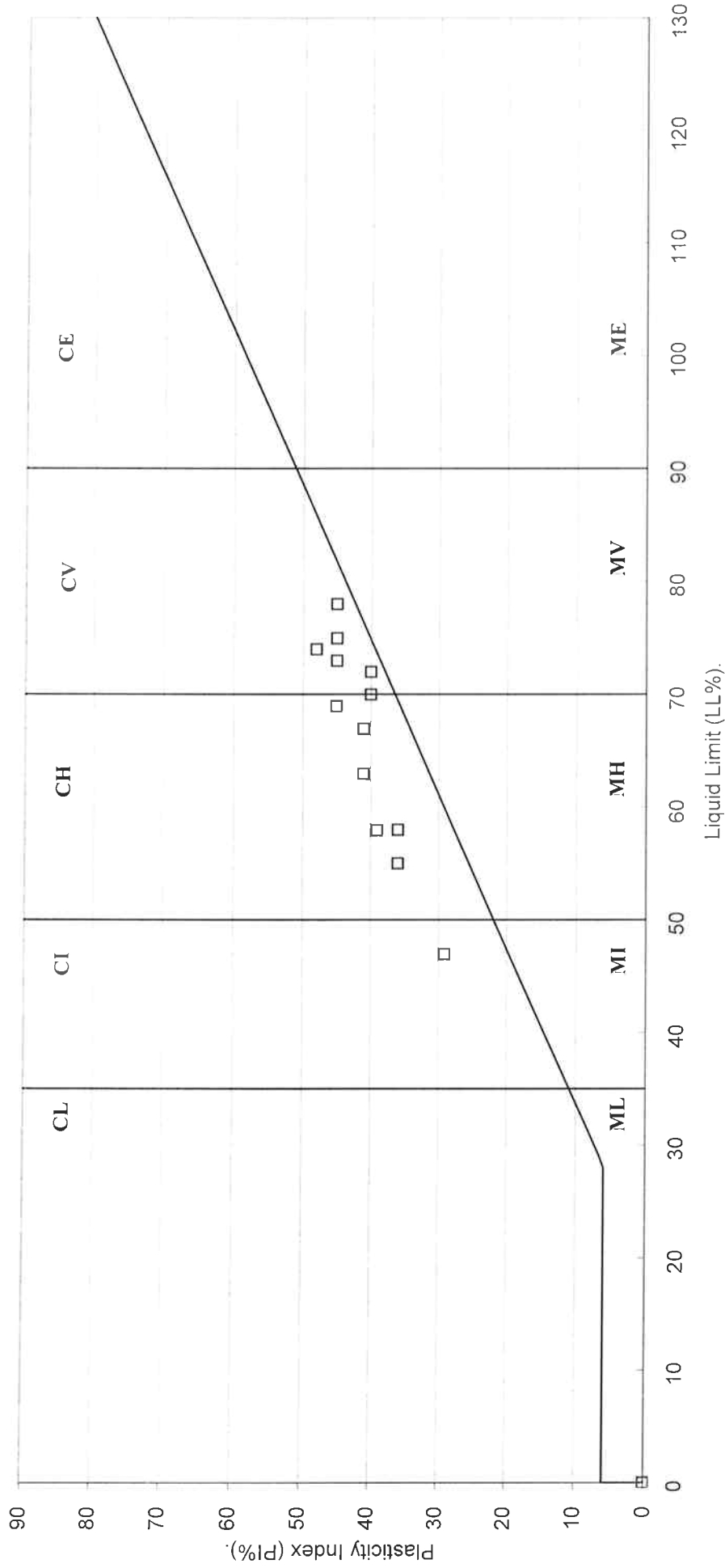


Professional Soils Laboratory

Compiled by	Date	Checked by	Date	Approved by	Date
	29/10/08		29/10/08		29/10/08
MEADOWLANDS JUNIOR AND INFANTS SCHOOL.					
Contract No: PSL08/2108				Client Ref: A050917	

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(B.S.5930 : 1999)



Professional Soils Laboratory

Contract No: PSL08/2108

Client Ref: A050917

Compiled by	Date	Checked by	Date	Approved by	Date
<i>[Signature]</i>	29/10/08	<i>[Signature]</i>	29/10/08	<i>[Signature]</i>	29/10/08
MEADOWLANDS JUNIOR AND INFANTS SCHOOL.					