Australasian Soil and Plant Analysis Council Inc.

ASPAC Soil Proficiency Testing Program Report

2007-08

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Members of the ASPAC Executive are acknowledged for their overview and support of this soil ILPP. The authors and the ASPAC Executive also appreciate the effort and commitment made by participating laboratories. ASPAC accepts that laboratories are ultimately responsible for measurement quality.

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Note: Membership of this Committee in 2007-08 was K.I. Peverill and R.J. Hill (Joint Convenors), G.E. Rayment and B.K. Daly. D.J. Lyons joined the Committee in 12/2007, following the retirement of Dr. Peverill.

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YOUR NOTES

1. Introduction

This annual report is the fourth in the upgraded inter-laboratory proficiency program (ILPP) for soil chemical tests. It covers three "rounds" each of four homogeneous samples sent to 57 participants in November 2007, in February and in May 2008. A similar program for plants (reported separately), commenced in August 2004 through the same service provider.

Members of ASPAC's Laboratory Proficiency Committee, the membership of which is listed on page iii of this report, oversaw the program. The ASPAC Executive is grateful to all of those who contributed to the report, inclusive of staff of Proficiency Services Limited, New Zealand, our service provider.

The ASPAC Executive also appreciates the effort and commitment made by participating laboratories. We recognise that laboratories share responsibility for measurement quality.

The Australasian Soil and Plant Analysis Council Inc (ASPAC) commenced its not-for-profit ILPPs in 1990 and issued its first soil program report in 1993. Its ILPPs specifically target soil and plant chemical laboratories in the Australasian region, although there are no restrictions on who can participate. A service provider operates the programs for ASPAC under contract.

ILPPs support ASPAC's overall goals to:

- promote excellence in all aspects of soil and plant analysis
- encourage and promote the adoption of preferred methods and protocols used in soil and plant analysis within Australasia.

More details on ASPAC can be obtained from its public web site at www.*aspac-australasia.com*. The site includes the ASPAC Strategic Plan and the names of its elected and appointed office holders.

Published ASPAC soil ILPP reports are dated or cover 1993, 1995, 1997, 1998, 1999, 2000, 2001/02, 2002/03 2004/05, 2005/06 (July 2008), 2006/07 (November 2010). The first *eight* were conducted and reported through an Australian provider as discrete entities, based on six homogeneous samples of dried and ground soil and subsequent laboratory analysis for a comprehensive range of soil chemical tests, mostly based on empirical procedures.

This is the fourth annual report from ASPAC's new, upgraded soil ILPP that commenced in 2004 and now operates out of New Zealand through a Provider Agreement with Global Proficiency Limited (GPL). The program is a composite of three "rounds", each of four homogeneous samples of dried and ground soils. Laboratory participants (Appendix 1) receive individual progress reports of their results (relative to others) for each of these "rounds". They also receive a consolidated, individual annual summary report on their measurement performance relative to others.

This annual program report consolidates (for ASPAC members and the public record) the three soil "rounds" that occurred in 2007-08. It also records program methodology, summary statistics, and a full listing of

results by test for the three “rounds”. In addition, the report includes an outline of how ASPAC periodically confers performance-based, method-specific certification to laboratories that regularly participate. To respect confidentiality, the cross-reference between laboratory name and laboratory identification number is not included. However, ASPAC’s public web site now lists the laboratories certified as proficient for specific tests for the most recently completed program year. ASPAC’s plan is to update information on certified tests and certifications for participating laboratories soon after completion of each annual program for both plants and soils. The first displayed were from the 2005-06 program year.

2. Program Details

2.1 Responsibilities

GPL (see Page iii for contact details) was contracted by ASPAC as the soil ILPP provider for 2007-08. Accordingly, GPL had responsibility on a “round-by-round” basis for sourcing and preparation of samples, for ensuring the samples met international and/or within-country quarantine requirements, and for the timely supply of samples to participating laboratories. GPL also undertook data analysis and “round-by-round” reporting for ASPAC, and assembled the summary and “raw” data provided in Section 3 and Appendix 4, respectively, of this report. GPL is a proficiency service provider accredited to *ISO Guide 43-1 Part 1: Development and operation of proficiency testing schemes.*

ASPAC’s LPC had responsibility to implement and resolve matters of policy and to provide guidance on technical matters specific to soil chemical testing both to GPL and to laboratory participants. The LPC also undertook statistical checks and audits for quality control purposes, participated in a Technical Advisory Group operated by the service provider, and contributed to training workshops. ASPAC, through members of its LPC or via its state representatives, may contact managers of laboratories with less certain analytical performance to ensure a measurement improvement program is commenced where necessary. Laboratories are encouraged to seek help from ASPAC if they are shown to be operating at levels of measurement performance below their peers.

Participants receive a unique, confidential laboratory number, subsequently used to identify the origin of each result presented in program reports and lists of results. Typically, this identification number carries forward from one annual program to the next.

2.2 Soil program participation

A total of 57 laboratories participated in the ASPAC soil ILPP in 2007-08 but the numbers that reported results varied by “round” and soil test (see Table 1). Contact details for laboratories that submitted results for any test in one or more of the three “rounds” are provided in Appendix 1. Most results, averaged across the three “rounds”, were submitted for method 4A1 (pH, 1:5 soil-water) and method 3A1 (Electrical conductivity, 1:5 soil-water). Participation counts for each test and sample are also summarized in Section 3.

Table 1. Test methods, corresponding method codes and the arithmetic average number of results per round submitted by participating laboratories in the ASPAC 2007-08 soil ILPP

2007-08 Soil Tests	Method Codes[1]	Number of participants		
		Nov 07	Feb 08	May 08
Electrical conductivity 1:5 soil-water	3A1	42	39	40
Soil pH, 1:5 soil-water	4A1	44	40	42
Soil pH, 1:5 0.01 M $CaCl_2$ — direct	4B1	17	12	16
Soil pH, 1:5 0.01 M $CaCl_2$ — indirect	4B2	20	21	21
Water soluble Cl — potentiometric	5A1	15	12	17
Water soluble Cl — autocolour	5A2	12	13	10
Organic Carbon —W&B	6A1	21	18	25
Total Organic C — Heanes	6B1	6	8	6
Total Organic C — Dumas	6B3	9	11	13
Total N — Kjeldahl, steam distillation	7A1	12	8	12
Total N — Kjeldahl, autocolour	7A2	7	7	8
Total N – Dumas	7A5	17	18	18
Water Soluble Nitrate N — autocolour	7B1	15	14	12
KCl Extractable Nitrate N — autocolour	7C2	17	17	19
KCl Ext. Ammonium N — autocolour	7C2	22	21	21
Total P – all methods	9A1 and others	18	21	22
Colwell Extractable P — manual	9B1	12	12	14
Colwell Extractable P — autocolour	9B2	12	9	9
Olsen Extractable P — manual	9C1	10	8	10
Olsen Extractable P — autocolour	9C2	11	9	10
Bray-1 Extractable P — manual	9E1	10	5	10
Bray-1 Extractable P — autocolour	9E2	5	6	6
Phosphorus buffer index (with Colwell P)	9I2a + 9I2b + 9I2c[2]	11	10	11
Phosphorus buffer index (with Olsen P)	9I3a + 9I3b + 9I3c[2]	5	3	3
Phosphate Extractable S	10B3	13	10	10
KCl 40 Extractable S	Blair *et al*[3]	11	11	11
DTPA Extractable Fe	12A1	35	32	34
DTPA Extractable Cu	12A1	35	31	35
DTPA Extractable Mn	12A1	34	31	32
DTPA Extractable Zn	12A1	35	32	34

1 Unless otherwise indicated, soil method codes are as defined by Rayment, G.E. and Lyons, D.J (2010). Soil Chemical Methods – Australasia. CSIRO Publishing, Collingwood, Victoria. 495 pp. This reference also includes background information on all of the coded methods.

2 These are ASPAC endorsed tests, where capital "O" in the superseded code refers to Olsen extractable P, and capital "C" in the superseded code refers to Colwell extractable P. See the Table Notes for more details.

3 Blair, G.J., Chinoim, N., Lefroy, R.D.B., Anderson, G.C., and Crocker, G.J. (1991). A soil sulfur test for pastures and crops. *Aust. J. Soil Research.* **29**, 619-626.

2007-08 Soil Tests	Method Codes[1]	Number of participants		
		Nov 07	Feb 08	May 08
Hot $CaCl_2$ Extractable B — manual colour	12C1	7	3	6
Hot $CaCl_2$ Extractable B — ICPAES	12C2	21	21	16
Exchangeable Ca — 1M NH_4Cl extract	15A1	19	19	19
Exchangeable Mg — 1M NH_4Cl extract	15A1	19	19	19
Exchangeable Na — 1M NH_4Cl extract	15A1	19	19	18
Exchangeable K — 1M NH_4Cl extract	15A1	19	19	19
Exchangeable Ca — 1M NH_4OAc extract	15D3	22	19	21
Exchangeable Mg — 1M NH_4OAc extract	15D3	22	19	21
Exchangeable Na — 1M NH_4OAc extract	15D3	21	19	20
Exchangeable K — 1M NH_4OAc extract	15D3	23	19	22
Exchangeable Al — 1M KCl extract	15G1	15	13	16

Notes for Table 1:

9I2a Phosphorus buffer index – Colwell – Murphy and Riley finish (9I2C in earlier ASPAC reports)
9I2b Phosphorus buffer index – Colwell – ICPAES finish (9I3C in earlier ASPAC reports)
9I2c Phosphorus buffer index – Colwell – Vanadate finish (9I4C in earlier ASPAC reports)
9I3a Phosphorus buffer index – Olsen – Murphy and Riley finish (9I2O in earlier ASPAC reports)
9I3b Phosphorus buffer index – Olsen – ICPAES finish (9I3O in earlier ASPAC reports)
9I3c Phosphorus buffer index – Olsen – Vanadate finish (9I4O in earlier ASPAC reports)

2.3 Tests and methods

The three proficiency "rounds" for soils – each comprising four samples – were offered in November 2007, and in February and May 2008. Participants were invited to analyse each sample by the methods listed and/or coded in Table 1. Participants were not required to submit results for all 42 tests, noting that phosphate buffer index (Colwell) and phosphate buffer index (Olsen) were "scored" as one method each, independent of which analytical finish was used. The proficiency provider requested results be provided on a weight / weight basis for air-dry (40°C) soil, which at times varies from the reporting specifications for test methods coded and described by Rayment and Lyons (2010).

2.4 Sample preparation and identification

Before distribution to participants, potential samples were analysed for homogeneity by laboratories accredited to ISO 17025. Specifically, 10 containers of each sample were selected at random by GPL and batched according to the principles described by Thompson and Wood (1993)[4]. These sub-samples were then analysed in duplicate for Total N — Dumas (combustion) method 7A5.

[4] Thompson, M and Wood, R. (1993). International harmonized protocol for proficiency testing of (chemical) analytical laboratories. *Journal of AOAC International* ***76*** (4), 926 – 940.

Results from the homogeneity testing were subsequently statistically assessed by GPL according to ISO REMCO Protocol N231 "*Harmonised Proficiency Testing Protocol*" of January 1992. Variations between samples were such that 11 of the 12 sample batches were deemed to be homogeneous and therefore suitable for use in proficiency testing. One sample, ASS 23-08 was determined to be inhomogenous but this was most likely the result of an extremely tight ILCP data set with a lower than expected variance. After close examination assessments made on this sample were retained and deemed to be fair. Examples of the homogeneity data and statistical assessments on the data are summarised in Appendix 2. In addition to testing for homogeneity, the soil samples were irradiated or otherwise rendered biologically benign to comply with international and/or national biosecurity regulations or requirements[5].

Ultimately, the samples used in the three "rounds" of the 2007-08 program were distributed and coded as follows: round 207 of November 2007 — ASS 111-114; round 407 of February 2008 — ASS 21-24; and round 607 of May 2008 — ASS 51-54. The association between sample code and origin of the various soils are provided in Table 2.

Table 2. Sample identification and the origin of the samples included in the ASPAC 2007-08 soil ILPP

Sample ID	*Sample origin*	*Sample ID*	*Sample origin*
ASS 111-07	NSW	ASS 23-08	VIC
ASS 112-07	TAS	ASS 24-08	NSW
ASS 113-07	QLD	ASS 51-08	QLD
ASS 114-07	North America	ASS 52-08	North America
ASS 21-08	NSW	ASS 53-08	NSW
ASS 22-08	NZ	ASS 54-08	QLD

ASS 114 was provided by the North American Proficiency Testing Program, and sub-sampled by Landcare Research. All other samples were prepared by Landcare Research.

2.5 Data analysis and periodic reporting

Laboratory results, after submission to GPL, were entered into a database and independently checked for data transfer accuracy prior to data processing. In keeping with past practice[6], the results from up to 57 laboratories for similar methods were "pooled" (eg. manual and automated "finishes") to obtain sufficient or

5 Rayment, G.E (2006). Australian efforts to prevent the accidental movement of pests and diseases in soil and plant samples. *Commun. Soil Sci. Plant Anal*. **37**, 2107-2117.

6 Johnstone, P; Shelley, B; Kitching, M. (2002). *Soil Proficiency Testing Program Report 2001,* Vol 2, No. 1. ASPAC, c/- State Chemistry Laboratory: Victoria, (July 2002).

larger populations of laboratories for statistical assessment. “Pooling” details for the 2007-08 soil program are summarised in Table 3.

The non-parametric assessment of laboratory performance for each sample and method (and/or “pooled” method) was performed by an iterative statistical procedure similar to that used in WEPAL inter-laboratory proficiency programs of Wageningen University. This procedure[7,8,9,10] is suited to datasets of as few as six laboratories, although larger laboratory populations are preferred. An outline of the median / MAD statistical procedure is provided in Appendix 3, with terms described in Table 4. In addition to medians and MADs, other statistical parameters (also described in Table 4) were calculated before and following the omission of non-conforming results. The “raw” data submitted by participating laboratories on a test-by-test basis are documented in Appendix 4, sometimes after rounding only for table formatting purposes.

Table 3. Method “pooling” summary for the ASPAC 2007-08 soil ILPP

2007-08 Soil Tests	Method Codes	Average participants
Soil pH, 1:5 0.01 M $CaCl_2$ - pooled	4B1 + 4B2	37
Water soluble Cl – pooled mg/kg air dry	5A1 + 5A2	27
Organic Carbon – pooled % oven dry	6A1 + Other	28
Total Organic Carbon-Dumas – part pool % oven dry	6B2+6B3	13
Total Organic Carbon – pooled % oven dry	6B1 + 6B2 + 6B3 + Other	21
Total N – part pool % oven dry	7A1 + 7A2	20
Total N – full-pool	7A1 + 7A2 + Dumas	38
Colwell Extractable P – pooled mg/kg air dry	9B1 + 9B2	23
Olsen Extractable P – pooled mg/kg air dry	9C1 + 9C2	20
Bray-1 Extractable P – pooled mg/kg air dry	9E1 + 9E2	16
Phosphorous Buffer Index (Colwell) L/kg dry wt	9I2a + 9I2b + 9I2c	11
Phosphorous Buffer Index (Olsen) L/kg dry wt	9I3a + 9I3b + 9I3c	3
Hot $CaCl_2$ Extractable B – pooled mg/kg air dry	12C1 + 12C2	22

7 Houba, V.J.G., Uittenbogaard, J. and Pellen, P. (1996). Wageningen evaluating programmes for analytical laboratories (WEPAL), organization and purpose. *Commun. Soil Sci. Plant Anal.* **27**, 421-429.

8 Montford, M.A.J. van. (1996). Statistical remarks on laboratory – evaluating programs for comparing laboratories and methods. *Commun. Soil Sci. Plant Anal*. ***27***, 463-478.

9 Rayment, G.E., Miller, R.O. and Sulaeman, E. (2000). Proficiency testing and other interactive measures to enhance analytical quality in soil and plant laboratories. *Commun. Soil Sci. Plant Anal.* ***31***, 1513-1530.

10 Whitehouse, M.W. (1987). Medians and MADs - Statistical methodology used at Wageningen, The Netherlands, for interlaboratory comparisons in the plant exchange program. Ag. Chem. Br. Report, ACU87/36. 10 pp. (Qld Dept. Primary Ind., Brisbane.)

Table 4. Statistical terms and their meanings in the context of this ASPAC annual report

Statistical term	*Meaning and/or derivation*
Count or number	Original population size.
Maximum i	The highest of a range of values, based on the initial data set.
Minimum i	The lowest of a range of values, based on the initial data set.
Median	The median is the score (value) at the 50th percentile, also called the 2nd quartile or 5th decile. It is the score or potential score in a distribution of scores, above which and below which one-half of the frequencies fall. It is the middle observation of a sequentially sorted array of numbers, except in the case of an even sample size. Here it is the arithmetic mean of the two observations in the middle of the sorted array of observations. The median of a reasonably sized array of numbers is insensitive to extreme scores.
Mean[A]	The arithmetic mean (or average) is the sum of the values of a variable divided by their number. It represents the point in a distribution of measurements about which the summed deviations equals zero. The arithmetic mean is sensitive to extreme measurements.
MAD	The Median of the Absolute Deviations, calculated as the median of the absolute values of the observations minus their median.
Interquartile range (IQR)	This is calculated by subtracting the score at the 25th percentile (referred to as the first quartile; Q_1) from the score at the 75th percentile (the third quartile; Q_3). This value is affected by the assumptions made in the calculation of the first and third quartiles, particularly for low population sizes. The algorithm employed was that of SAS Method 4[11]. In summary, IQR = Q_3-Q_1.
Normalised IQR	This equates to IQR x 0.7413, where the latter is a normalising factor.
Robust % CV[12]	The robust coefficient of variation (Robust % CV) = (100 x normalised IQR / median). For simplicity, the Robust %CVs shown are for the initial results, and for the "final" population of results for a test after the removal of any "outliers" or "stragglers", following one or two iterations. Note that for Interim Reports, this term is estimated as = (100*MAD*1.483)/Median, separately for "i" and "f" datasets.
Letter "i" and the letter "f" associated with medians, means, MADs, IQR and Robust %CVs in data summaries.	The letter "i" relates to the initial data set. The letter "f" relates to the "final" data set, generated after one or two iterations, typically after removal of laboratories with statistical "outliers" (if any), and statistical "stragglers" (if any).

A When the mean is greater than the median, the distribution is positively skewed. When the mean is lower than the median, the distribution is negatively skewed.

11 SAS Procedure Guide.

12 "Guide to NATA Proficiency Testing". 27 pp. (National Association of Testing Authorities, Australia, December 1997).

Like other programs nationally and internationally, the program did not accept as a numeric value a result reported as less than (<) or greater than (>) a specified number. In cases where the expected value was below the laboratory's lower limit of reporting, the expectation was that the laboratory would report a value half way between that value and zero. For high values, dilution was the expected option. In practice, this appeared to be happening in 2007-08, as no zero values were observed in the "raw" data compilations in Appendix 4.

Interim "round" reports, summarising measurement performance relative to the performance of all laboratories in the program that undertook the same test/s, were routinely and promptly e-mailed to participants. The main purpose of the interim reports was to provide feedback and to enable laboratories to take prompt action where appropriate. Interim reports also provided an opportunity to correct for data-transfer and data-processing misinterpretations. In addition, a Newsletter from the service provider went to all participating laboratories. Its main purpose was to assist in the interpretation of interim reports. Also included in the Newsletter was information about upcoming events and operational administration of the program.

Laboratories that participated in the 2007-08 soil ILPP each received from GPL (on behalf of ASPAC) a laboratory specific, confidential, annual summary report. Each laboratory's data for the 12 soil samples, the aggregate data from all participants, other relevant statistical data, and whether or not the test/s received ASPAC Certification (if applicable) were provided. The laboratory code number was included.

2.6 ASPAC certification of laboratories for soil tests

Subject to satisfactory measurement performance for 12 samples across three sequential "rounds", typically over a twelve-month period, ASPAC awarded participating laboratories with a printed signed and dated *Certificate of Proficiency*. The *Certificate of Proficiency* identified performance for each test that met criteria set in advance by ASPAC. Method specific certification applied when a laboratory incurred no more than four demerit points for the 12 samples in 2007-08.

Demerit points (if any) were allocated through the identification of "outliers" and "stragglers" (see Appendix 3) by the "median / MAD" statistical procedure mentioned earlier in this report. Two demerit points were allocated to each statistical "outlier", while a statistical "straggler" was allocated one demerit point. As no sample result could be both an "outlier" and a "straggler", a maximum of two demerit points is all that could accrue per sample for a specific test.

For any single "round" of four samples, three (3) was set as the maximum number of demerit points for a specific test. This was done so that unsatisfactory measurement for a test in one "round" did not in itself result in failure to be certified for that test across the three "rounds" in the designated 12-month period. The same procedure applied to "pooled" methods but there was a caveat. When both "unpooled" and "pooled" data for a test such as soil C could be assessed statistically and both subsequently qualified for certification, only the "unpooled" method was recorded on the Certificate rather than both.

If a “round” was missed, the maximum number of three demerit points for every test in that “round” was allocated, unless very special circumstances applied and was known or advised expeditiously to ASPAC’s LPC through its Convenor. When the explanation was accepted, performance from the three most recently completed “rounds” was used to assess eligibility for certification.

Finally, when less than six (6) laboratories submitted results for a particular test and/or sample, proficiency assessments could not be made statistically with an acceptable level of confidence and hence certification for the affected tests could not be granted. Importantly, ASPAC’s *Certificates of Proficiency* are only issued on completion of each annual program of three “rounds”. Nowadays, ASPAC provides details of certified laboratories by test on its public web site. Certifications obtained in the 2007-08 Soils’ Program remain valid until completion of the corresponding 2008-09 Program.

3. Summary Statistics

This section provides summary statistics (sometimes rounded only for table formatting purposes) on all tests (plus key “pooled” combinations) for each of the 12 samples used across three soil “rounds” in 2007-08. The tabulations include initial and subsequent or final values for the iterative “median / MAD” procedure plus other robust statistics. Table 4 and Appendix 3 have the meaning or derivation of the terms and statistics used in the tabulated summaries. The assumed moisture status of the results is included with those summaries.

2007-08: Electrical conductivity 1:5 soil-water (3A1) dS/m air dry

	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
Statistical parameters	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	42	42	42	42	39	39	39	39	40	40	40	40
Minimum	0.0116	0.0222	0.0532	0.0117	0.1	0.0012	0.09	0.002	0.0024	0.05	0.05	0.222
Maximum	140	320	740	130	130	240	121	246	1.82	0.451	0.924	19.8
Median i	0.1175	0.21	0.575	0.1165	0.113	0.214	0.117	0.201	0.18	0.08	0.0615	2.056
Mean i	9.03	18.4	44.8	8.94	3.46	6.36	3.24	6.51	0.251	0.0985	0.0971	2.77
MAD i	0.012	0.01	0.055	0.0065	0.007	0.012	0.007	0.009	0.01	0.0086	0.004	0.065
IQR i	0.0263	0.0215	0.0758	0.0148	0.0089	0.0141	0.0148	0.0245	0.0148	0.0133	0.0066	0.104
Robust CV % i	22	10	13	13	7.9	6.6	13	12	8.2	17	11	5.1
Median f	0.111	0.21	0.56	0.115	0.11	0.213	0.116	0.2	0.176	0.08	0.061	2.06
Mean f	0.114	0.21	0.571	0.115	0.111	0.213	0.116	0.2	0.177	0.0797	0.0616	2.06
MAD f	0.004	0.009	0.042	0.005	0.0045	0.007	0.004	0.005	0.0065	0.008	0.0035	0.056
IQR f	0.0063	0.0133	0.0652	0.0074	0.0059	0.013	0.0074	0.0082	0.00964	0.0119	0.0039	0.0778
Robust CV % f	5.7	6.4	12	6.4	5.4	6.1	6.4	4.1	5.5	15	6.4	3.8
Outliers	10	11	7	11	6	5	8	9	8	4	6	9
Stragglers	6	0	0	0	3	2	3	3	0	1	0	1

2007-08: Soil pH, 1:5 soil-water (4A1) air dry

	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
Statistical parameters	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**	**ASS**
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	44	44	44	44	40	40	40	40	42	42	42	42
Minimum	6.3	4.77	6.53	6.5	5.59	4.79	4.6	5.7	6.06	5.83	4.73	8.1
Maximum	7.44	8.5	8.6	7.92	6.66	5.9	8.2	6.86	6.7	6.66	5.81	9.44
Median i	6.94	5.475	8.33	7.015	6.2	5.25	5.455	6.155	6.515	6.49	5.505	9.055
Mean i	6.93	5.53	8.28	7.03	6.18	5.23	5.49	6.16	6.48	6.45	5.46	8.98
MAD i	0.135	0.075	0.09	0.125	0.1	0.055	0.145	0.095	0.115	0.11	0.05	0.075
IQR i	0.185	0.118	0.146	0.2	0.133	0.126	0.228	0.137	0.165	0.174	0.117	0.153
Robust CV % i	2.7	2.2	1.8	2.9	2.2	2.4	4.2	2.2	2.5	2.7	2.1	1.7
Median f	6.95	5.48	8.39	7.02	6.2	5.25	5.47	6.15	6.52	6.5	5.51	9.09
Mean f	6.94	5.47	8.35	7.01	6.19	5.24	5.49	6.15	6.49	6.47	5.52	9.07
MAD f	0.11	0.075	0.086	0.11	0.09	0.05	0.085	0.08	0.12	0.105	0.03	0.04
IQR f	0.185	0.107	0.119	0.169	0.133	0.0852	0.176	0.115	0.163	0.169	0.0408	0.0852
Robust CV % f	2.7	2.0	1.4	2.4	2.2	1.6	3.2	1.9	2.5	2.6	0.74	0.94
Outliers	2	6	2	3	5	7	3	5	1	2	10	8
Stragglers	1	0	3	1	0	0	3	2	0	0	3	3

2007-08: Soil pH, 1:5 0.01 M $CaCl_2$ — direct (4B1) air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	112	113	114	21	22	23	24	51	52	53	54
No of results	17	17	17	17	12	12	12	12	16	16	16	16
Minimum	5.85	4.32	6.21	6.27	5.13	4.56	4.68	5.49	5.8	5.5	4.4	7.95
Maximum	6.8	5.09	7.93	7.53	5.73	4.85	5.07	5.66	6.3	6.352	4.86	8.3
Median i	6.34	4.91	7.65	6.5	5.465	4.74	4.975	5.62	5.975	5.815	4.7	8.195
Mean i	6.32	4.87	7.56	6.53	5.45	4.73	4.95	5.61	6	5.82	4.68	8.18
MAD i	0.09	0.04	0.15	0.15	0.07	0.06	0.06	0.03	0.090	0.105	0.08	0.055
IQR i	0.182	0.078	0.226	0.204	0.169	0.1	0.115	0.054	0.141	0.183	0.13	0.076
Robust CV % i	2.9	1.6	3.0	3.1	3.1	2.1	2.3	0.96	2.4	3.2	2.8	0.93
Median f	6.34	4.91	7.75	6.45	5.48	4.74	4.98	5.62	5.98	5.81	4.7	8.2
Mean f	6.31	4.91	7.68	6.47	5.48	4.73	4.97	5.61	6	5.78	4.68	8.2
MAD f	0.08	0.04	0.13	0.125	0.06	0.06	0.06	0.03	0.090	0.11	0.08	0.05
IQR f	0.148	0.061	0.185	0.191	0.096	0.1	0.089	0.054	0.141	0.17	0.13	0.082
Robust CV % f	2.3	1.2	2.4	3.0	1.8	2.1	1.8	0.96	2.4	2.9	2.8	0.99
Outliers	2	3	1	1	1	0	1	0	0	1	0	1
Stragglers	0	0	1	0	0	0	0	0	0	0	0	0

2007-08: Soil pH, 1:5 0.01 M $CaCl_2$ — indirect (4B2) air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	112	113	114	21	22	23	24	51	52	53	54
No of results	19	20	20	20	21	21	21	21	21	21	21	21
Minimum	5.97	4.4	6.8	6.2	5.3	4.6	4.8	5.4	5.6	5.6	4.5	6.8
Maximum	6.76	5.4	7.94	6.63	6.22	5.2	7.59	6.39	6.5	6.6	6.3	8.65
Median i	6.34	4.91	7.778	6.460	5.53	4.78	5	5.66	6	5.8	4.7	8.4
Mean i	6.31	4.92	7.68	6.46	5.59	4.81	5.13	5.74	6.01	5.82	4.78	8.29
MAD i	0.08	0.045	0.117	0.06	0.08	0.03	0.07	0.04	0.05	0.03	0.05	0.12
IQR i	0.156	0.078	0.206	0.102	0.152	0.042	0.096	0.078	0.089	0.082	0.067	0.185
Robust CV % i	2.5	1.6	2.6	1.6	2.7	0.88	1.9	1.4	1.5	1.4	1.4	2.2
Median f	6.34	4.91	7.84	6.46	5.5	4.78	4.99	5.65	6	5.81	4.7	8.4
Mean f	6.31	4.92	7.77	6.47	5.51	4.78	4.99	5.66	5.99	5.79	4.7	8.41
MAD f	0.07	0.035	0.095	0.059	0.05	0.025	0.07	0.05	0.04	0.015	0.035	0.11
IQR f	0.148	0.061	0.182	0.089	0.070	0.038	0.104	0.056	0.074	0.052	0.048	0.163
Robust CV % f	2.3	1.2	2.3	1.4	1.3	0.79	2.1	0.98	1.2	0.89	1.0	1.9
Outliers	2	4	2	1	2	3	2	4	4	3	1	2
Stragglers	0	0	0	0	2	0	0	0	1	2	2	0

2007-08: Soil pH, 1:5 0.01 M $CaCl_2$ — pooled (4B1 + 4B2)

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	36	37	37	37	33	33	33	33	37	37	37	37
Minimum	5.85	4.32	6.21	6.2	5.13	4.56	4.68	5.4	5.6	5.5	4.4	6.8
Maximum	6.8	5.4	7.94	7.53	6.22	5.2	7.59	6.39	6.5	6.6	6.3	8.65
Median i	6.34	4.91	7.726	6.461	5.5	4.77	4.99	5.64	6	5.81	4.7	8.29
Mean i	6.32	4.9	7.63	6.49	5.54	4.78	5.06	5.69	6.01	5.82	4.74	8.24
MAD i	0.085	0.04	0.126	0.091	0.05	0.03	0.07	0.04	0.08	0.06	0.06	0.11
IQR i	0.154	0.070	0.208	0.156	0.126	0.050	0.104	0.070	0.108	0.1	0.097	0.166
Robust CV % i	2.4	1.4	2.7	2.4	2.3	1.0	2.1	1.2	1.8	1.7	2.1	2.0
Median f	6.34	4.91	7.75	6.46	5.5	4.77	4.99	5.64	6	5.81	4.7	8.3
Mean f	6.31	4.92	7.73	6.46	5.5	4.77	4.99	5.64	5.99	5.78	4.7	8.31
MAD f	0.07	0.04	0.13	0.0905	0.045	0.03	0.06	0.02	0.07	0.04	0.06	0.1
IQR f	0.143	0.056	0.196	0.143	0.067	0.047	0.093	0.0371	0.091	0.080	0.090	0.148
Robust CV % f	2.3	1.1	2.5	2.2	1.2	0.98	1.9	0.66	1.5	1.4	1.9	1.8
Outliers	5	7	4	1	11	5	3	4	2	4	2	2
Stragglers	1	0	0	0	0	0	0	4	1	3	0	0

2007-08: Water soluble Cl — potentiometric (5A1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	15	15	15	14	12	12	12	12	17	17	17	17
Minimum	1.676	6.674	6.674	0.1	5	11	54.32	9.1	0.005	0.005	0.005	0.27
Maximum	93.6	734	137	63.9	96.8	241	156	55	61.3	46.7	43.2	4200
Median i	11	75.5	71	7	10.8	29.5	92.05	23.5	33	14	14	2705
Mean i	23.2	120	74	12.2	19	47	96.6	26.8	36.2	18.5	16	2720
MAD i	9.04	9.5	14	4.65	1.6	11.5	18.1	12	10	8	6	195
IQR i	22.2	25.2	27.1	7.68	4.84	18	28.4	18.5	19	15.4	11.9	338
Robust CV % i	200	33	38	110	45	61	31	79	58	110	85	13
Median f	8	75	71	5.55	10	29	92.1	23.5	33	14	13.8	2710
Mean f	9.51	77.3	74.3	6.63	9.6	29.4	96.6	26.8	36.2	18.5	14.3	2790
MAD f	4	1	11.6	4.06	1	10	18.1	12	10	8	5.75	131
IQR f	7.44	5.97	21.3	6.33	1.67	11.1	28.4	18.5	19	15.4	10.7	214
Robust CV % f	93	8	30	110	17	38	31	79	58	110	78	7.9
Outliers	2	4	2	2	2	1	0	0	0	0	1	4
Stragglers	2	2	0	0	1	0	0	0	0	0	0	0

2007-08: Water soluble Cl — autocolour (5A2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	12	12	12	12	13	13	13	13	10	10	10	10
Minimum	3.6	69	57	1.4	4.8	8.15	27.41	14	5	5	5	2430
Maximum	74	210	170	34	70	70	124	91	80	44	49	3069
Median i	13.6	84	70.25	11	14.05	20.96	84.96	22.2	35.65	17.15	19.5	2690
Mean i	22	96.3	82.2	12.8	21.3	24.9	83	30	37.5	20.2	21.6	2720
MAD i	9	9.95	5.65	3.5	4.05	2.26	7.96	5.98	3	1.95	5.7	113
IQR i	19.2	19.6	19	6.23	13.7	5.67	10	9.04	6.47	8.04	9.99	143
Robust CV % i	140	23	27	57	97	27	12	41	18	47	51	5.3
Median f	11.1	82	68	10	12	20	85	22	35.7	16.5	17	2690
Mean f	14.1	81.7	67.1	9.11	12.5	20	84.3	22.8	36.3	16.7	18.5	2720
MAD f	6.4	7.25	3	2.5	2.02	1.3	3.46	3.1	2	0.9	5	113
IQR f	11.9	11.7	5.86	5.33	4.43	2.22	6.67	7.49	3.71	1.72	8.19	143
Robust CV % f	110	14	8.6	53	37	11	7.9	34	10	10	48	5.3
Outliers	1	1	2	2	2	3	2	1	2	3	1	0
Stragglers	1	1	1	0	2	1	0	1	0	1	0	0

2007-08: Water soluble Cl — pooled (5A1 + 5A2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	27	27	27	26	25	25	25	25	27	27	27	27
Minimum	1.676	6.674	6.674	0.1	4.8	8.15	27.41	9.1	0.005	0.005	0.005	0.27
Maximum	93.6	734	170	63.9	96.8	241	156	91	80	46.7	49	4200
Median i	12	82	70.5	9.9	12	21.6	85.2	22.2	35	17	16	2700
Mean i	22.7	110	77.7	12.5	20.2	35.5	89.5	28.5	36.7	19.1	18.1	2720
MAD i	7.99	8	8.5	5.3	2.9	7.4	8.8	7.8	8.31	8.2	8	126
IQR i	20	21.5	23.2	7.25	10	9.45	16.7	12.4	12.5	9.79	10.4	208
Robust CV % i	170	26	33	73	83	44	20	56	36	58	65	7.7
Median f	8.55	75.5	68.5	8.4	10.8	20.1	85	21	34.5	17	14	2680
Mean f	8.39	79.6	67.8	7.76	10.9	21.2	86.3	23.4	35.7	19.1	15.8	2720
MAD f	3.55	5.5	4.65	3.75	1.37	3.3	8	6.5	4.5	8.2	6	105
IQR f	6.04	8.9	6.26	6.58	2.2	7.65	11.9	10.3	7.77	9.79	11.1	151
Robust CV % f	71	12	9.1	78	20	38	14	49	23	58	79	5.6
Outliers	5	6	6	2	6	3	3	2	2	0	1	5
Stragglers	4	2	3	2	1	2	1	1	3	0	1	1

2007-08: Organic Carbon — W&B (6A1) % air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	21	21	21	21	18	18	18	18	26	26	26	26
Minimum	1.08	4.71	0.9	1.1	0.92	4.1	0.36	2.75	0.378	1.57	1.25	0.251
Maximum	3.5	12.51	2.3	4.2	2.53	8.28	1.5	5.666	4.83	6.1	9.82	6.41
Median i	1.37	5.43	1.2	1.58	1.31	4.785	0.702	3.315	1.095	2.305	1.91	0.642
Mean i	1.52	5.86	1.27	1.81	1.44	5.07	0.75	3.63	1.25	2.51	2.23	0.871
MAD i	0.13	0.27	0.11	0.09	0.09	0.275	0.061	0.275	0.105	0.12	0.2	0.077
IQR i	0.219	0.43	0.156	0.268	0.18	0.578	0.109	0.576	0.175	0.269	0.291	0.135
Robust CV % i	16	7.9	13	17	14	12	16	17	16	12	15	21
Median f	1.32	5.37	1.17	1.53	1.26	4.78	0.69	3.3	1.08	2.29	1.88	0.64
Mean f	1.32	5.45	1.16	1.56	1.3	4.82	0.702	3.37	1.11	2.33	1.93	0.629
MAD f	0.07	0.24	0.084	0.03	0.1	0.22	0.045	0.2	0.092	0.1	0.18	0.062
IQR f	0.137	0.362	0.134	0.050	0.106	0.432	0.087	0.408	0.146	0.163	0.289	0.099
Robust CV % f	10	6.8	11	3.2	8.4	9.0	13	12	14	7.1	15	15
Outliers	3	2	3	4	4	1	3	2	3	5	1	3
Stragglers	1	0	0	4	0	1	0	1	0	0	0	2

2007-08 Organic Carbon — pooled (6A1 + other) % air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	23	23	23	23	19	19	19	19	29	29	29	29
Minimum	0.635	0.458	0.588	0.69	0.92	4.1	0.36	2.75	0.378	1.57	1.25	0.251
Maximum	3.5	12.51	2.3	4.2	2.53	8.28	1.5	5.666	4.83	6.1	9.82	6.41
Median i	1.37	5.43	1.2	1.58	1.35	4.78	0.714	3.32	1.12	2.39	1.94	0.644
Mean i	1.5	5.65	1.25	1.77	1.44	5.04	0.759	3.62	1.25	2.52	2.22	0.856
MAD i	0.18	0.3	0.11	0.11	0.1	0.32	0.069	0.22	0.1	0.16	0.19	0.074
IQR i	0.237	0.481	0.178	0.277	0.141	0.593	0.111	0.534	0.177	0.278	0.289	0.129
Robust CV % i	17	8.9	15	18	10	12	16	16	16	12	15	20
Median f	1.35	5.4	1.19	1.54	1.27	4.78	0.702	3.31	1.12	2.31	1.94	0.64
Mean f	1.34	5.5	1.18	1.57	1.31	4.86	0.716	3.37	1.12	2.36	1.95	0.641
MAD f	0.065	0.26	0.09	0.035	0.1	0.275	0.054	0.185	0.09	0.09	0.18	0.058
IQR f	0.133	0.392	0.133	0.067	0.104	0.524	0.1	0.373	0.135	0.206	0.272	0.092
Robust CV % f	9.9	7.3	11	4.4	8.2	11	14	11	12	8.9	14	14
Outliers	3	3	4	5	4	1	3	3	3	3	1	3
Stragglers	2	0	0	4	0	0	0	0	0	2	0	2

2007-08: Total Organic Carbon — Heanes (6B1) % air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	6	6	6	6	8	8	8	8	6	6	6	6
Minimum	0.92	4.58	0.63	1.68	1.38	4.66	0.68	3.16	1.14	2.23	1.98	0.64
Maximum	1.82	6.34	1.66	1.96	4	10	2.2	7.8	2.81	5.21	5.02	1.59
Median i	1.545	6.03	1.31	1.76	1.49	5.225	0.89	3.8	1.23	2.64	2.4	0.868
Mean i	1.48	5.74	1.27	1.8	1.96	5.86	1.15	4.58	1.55	3.01	2.88	0.971
MAD i	0.085	0.19	0.075	0.07	0.105	0.385	0.155	0.45	0.06	0.15	0.315	0.219
IQR i	0.261	0.749	0.274	0.191	0.84	1.1	0.524	2.06	0.565	0.719	1.18	0.476
Robust CV % i	17	12	21	11	56	21	59	54	46	27	49	55
Median f	1.6	6.08	1.31	1.76	1.4	5.2	0.83	3.53	1.21	2.58	2.3	0.869
Mean f	1.6	5.97	1.34	1.8	1.39	5.27	0.996	3.66	1.2	2.57	2.45	0.971
MAD f	0.11	0.1	0.015	0.07	0.005	0.31	0.12	0.245	0.02	0.12	0.2	0.219
IQR f	0.185	0.415	0.087	0.191	0.013	0.571	0.452	0.578	0.059	0.285	0.604	0.476
Robust CV % f	12	6.8	6.6	11	0.93	11	54	16	4.9	11	26	55
Outliers	1	1	1	0	2	1	1	2	2	1	1	0
Stragglers	0	0	1	0	2	0	0	0	0	0	0	0

2007-08: Total Organic Carbon — HF Induction, IR (6B3) % air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	7	8	8	7	8	8	8	8	12	12	12	12
Minimum	1.2	1.05	1.19	1.38	1.11	4.54	0.474	3.22	1.09	1.83	1.73	0.46
Maximum	2.59	6.64	2.67	5.93	1.6	5.66	0.832	4	1.37	2.85	2.52	3.25
Median i	1.57	6.395	1.44	1.8	1.41	5.45	0.808	3.79	1.31	2.705	2.39	1.02
Mean i	1.64	5.69	1.62	2.33	1.38	5.35	0.743	3.68	1.28	2.59	2.31	1.11
MAD i	0.05	0.175	0.17	0.06	0.035	0.1	0.0185	0.09	0.035	0.1	0.095	0.1
IQR i	0.126	0.385	0.322	0.096	0.145	0.228	0.137	0.378	0.069	0.183	0.183	0.24
Robust CV % i	8.0	6.0	22	5.4	10	4.2	17	10	5.2	6.8	7.7	24
Median f	1.57	6.41	1.36	1.8	1.42	5.47	0.817	3.83	1.31	2.75	2.43	1.02
Mean f	1.54	6.35	1.46	1.79	1.42	5.47	0.814	3.83	1.3	2.73	2.41	0.965
MAD f	0.02	0.09	0.16	0.05	0.02	0.06	0.013	0.055	0.03	0.065	0.07	0.095
IQR f	0.085	0.267	0.252	0.078	0.0334	0.141	0.023	0.119	0.052	0.124	0.113	0.228
Robust CV % f	5.4	4.2	19	4.3	2.3	2.6	2.8	3.1	4.0	4.5	4.7	22
Outliers	2	1	1	2	2	1	2	2	1	2	2	2
Stragglers	0	0	0	0	1	0	0	0	0	0	0	0

2007-08: Total Organic Carbon — Dumas (6B2 + 6B3) % air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	112	113	114	21	22	23	24	51	52	53	54
No of results	9	10	10	9	11	11	11	11	13	13	13	13
Minimum	1.2	1.05	1.19	1.38	1.11	4.54	0.474	3.22	1.09	1.83	1.73	0.46
Maximum	2.59	6.64	2.67	5.93	1.6	5.66	0.837	4	1.37	2.85	2.58	3.25
Median i	1.57	6.395	1.47	1.83	1.4	5.47	0.8	3.8	1.31	2.73	2.41	1.04
Mean i	1.62	5.83	1.62	2.23	1.38	5.38	0.757	3.7	1.29	2.61	2.33	1.12
MAD i	0.06	0.095	0.17	0.08	0.06	0.1	0.027	0.1	0.04	0.08	0.09	0.089
IQR i	0.133	0.297	0.35	0.119	0.133	0.215	0.057	0.208	0.067	0.167	0.174	0.238
Robust CV % i	8.5	4.6	24	6.5	9.5	3.9	7.1	5.5	5.1	6.1	7.2	23
Median f	1.57	6.43	1.42	1.83	1.4	5.47	0.815	3.82	1.32	2.76	2.45	1.05
Mean f	1.54	6.42	1.5	1.82	1.38	5.46	0.808	3.81	1.31	2.73	2.43	1.02
MAD f	0.05	0.06	0.1	0.03	0.06	0.08	0.016	0.06	0.035	0.05	0.07	0.07
IQR f	0.111	0.096	0.297	0.082	0.133	0.148	0.026	0.119	0.05	0.119	0.104	0.151
Robust CV % f	7.1	1.5	21	4.5	9.5	2.7	3.2	3.1	3.8	4.3	4.2	14
Outliers	2	1	1	2	0	1	2	2	1	2	2	2
Stragglers	0	1	0	0	0	0	0	0	0	0	0	1

2007-08: Total N — Kjeldahl, steam distillation (7A1) % air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	112	113	114	21	22	23	24	51	52	53	54
No of results	12	12	12	12	8	8	8	8	12	12	12	12
Minimum	0.0098	0.0014	0.0099	0.0178	0.0026	0.0039	0.0073	0.0061	0.045	0.094	0.051	0.02
Maximum	1320	4393	1110	1570	0.16	0.545	0.632	0.37	0.402	0.75	0.33	0.11
Median i	0.109	0.405	0.099	0.150	0.111	0.506	0.07	0.296	0.098	0.228	0.102	0.055
Mean i	217	730	165	251	0.105	0.387	0.135	0.263	0.137	0.28	0.136	0.056
MAD i	0.011	0.026	0.0279	0.042	0.0095	0.03	0.0085	0.021	0.013	0.0165	0.0115	0.0115
IQR i	0.0738	0.188	0.0803	0.094	0.021	0.24	0.030	0.032	0.026	0.032	0.024	0.022
Robust CV % i	68	47	81	63	19	47	43	11	27	14	24	39
Median f	0.107	0.4	0.096	0.148	0.117	0.524	0.07	0.296	0.098	0.225	0.0995	0.053
Mean f	0.111	0.4	0.0986	0.144	0.12	0.528	0.0668	0.289	0.097	0.224	0.0969	0.0511
MAD f	0.006	0.003	0.0199	0.0275	0.013	0.003	0.001	0.01	0.004	0.011	0.010	0.012
IQR f	0.014	0.0070	0.039	0.045	0.022	0.015	0.0067	0.031	0.012	0.016	0.018	0.022
Robust CV % f	13	1.8	40	31	18	2.8	9.5	10	12	7.2	18	42
Outliers	4	5	2	2	1	3	2	1	2	3	2	1
Stragglers	0	2	0	0	0	1	1	1	1	0	0	0

2007-08: Total N — Kjeldahl, autocolour (7A2) % air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	112	113	114	21	22	23	24	51	52	53	54
No of results	7	7	7	7	7	7	7	7	8	8	8	8
Minimum	0.08	0.275	0.064	0.126	0.1	0.27	0.03	0.23	0.084	0.14	0.082	0.042
Maximum	0.124	0.415	0.103	0.172	0.123	0.605	0.069	0.317	0.166	0.278	0.138	0.07
Median i	0.12	0.405	0.095	0.152	0.111	0.491	0.062	0.286	0.095	0.2215	0.098	0.05
Mean i	0.114	0.389	0.090	0.151	0.11	0.482	0.058	0.279	0.106	0.217	0.102	0.054
MAD i	0.004	0.001	0.006	0.006	0.005	0.033	0.0031	0.018	0.007	0.02	0.0125	0.0045
IQR i	0.0074	0.0067	0.018	0.013	0.011	0.085	0.0075	0.040	0.026	0.029	0.018	0.0096
Robust CV % i	6.2	1.6	18	8.5	10	17	12	14	27	13	18	19
Median f	0.121	0.405	0.095	0.152	0.111	0.497	0.0625	0.286	0.094	0.222	0.098	0.05
Mean f	0.12	0.405	0.090	0.151	0.11	0.518	0.062	0.279	0.098	0.217	0.102	0.054
MAD f	0.0035	0	0.006	0.006	0.005	0.0305	0.0026	0.018	0.007	0.02	0.0125	0.0045
IQR f	0.0058	0.0006	0.018	0.013	0.011	0.082	0.0054	0.041	0.010	0.029	0.018	0.0096
Robust CV % f	4.8	0.14	18	8.5	10	16	8.7	14	11	13	18	19
Outliers	1	3	0	0	0	1	1	0	1	0	0	0
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

2007-08: Total N — part-pool (7A1 + 7A2) % air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	112	113	114	21	22	23	24	51	52	53	54
No of results	19	19	19	19	15	15	15	15	20	20	20	20
Minimum	0.0098	0.0014	0.0099	0.0178	0.0026	0.0039	0.0073	0.0061	0.045	0.094	0.051	0.02
Maximum	1320	4393	1110	1570	0.16	0.605	0.632	0.37	0.402	0.75	0.33	0.11
Median i	0.117	0.405	0.098	0.152	0.111	0.491	0.065	0.292	0.097	0.224	0.1	0.052
Mean i	137	461	105	159	0.108	0.431	0.099	0.271	0.125	0.255	0.122	0.055
MAD i	0.01	0.01	0.018	0.02	0.009	0.035	0.0051	0.024	0.0115	0.0175	0.0105	0.009
IQR i	0.0163	0.023	0.0256	0.0341	0.0141	0.148	0.0096	0.0319	0.025	0.0274	0.0161	0.012
Robust CV % i	14	5.7	26	22	13	30	15	11	26	12	16	23
Median f	0.114	0.405	0.094	0.151	0.111	0.52	0.065	0.292	0.096	0.222	0.1	0.05
Mean f	0.113	0.405	0.090	0.146	0.112	0.519	0.064	0.283	0.095	0.223	0.102	0.052
MAD f	0.008	0.002	0.0075	0.006	0.007	0.029	0.0049	0.015	0.004	0.008	0.01	0.01
IQR f	0.015	0.0052	0.018	0.016	0.012	0.04	0.0074	0.03	0.0078	0.016	0.014	0.011
Robust CV % f	13	1.3	19	11	11	7.7	11	10	8.1	7.3	14	22
Outliers	4	6	4	5	2	4	4	1	4	4	3	1
Stragglers	0	2	1	1	0	0	0	1	3	1	0	0

2007-08: Total N – Dumas (7A5) % air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	112	113	114	21	22	23	24	51	52	53	54
No of results	17	17	17	17	18	18	18	18	18	18	18	18
Minimum	0.078	0.1	0.051	0.11	0.071	0.505	0.04	0.25	0.067	0.17	0.063	0.030
Maximum	0.252	0.49	0.191	0.308	1.06	0.61	0.104	0.337	0.131	0.25	0.13	0.08
Median i	0.12	0.441	0.096	0.151	0.117	0.54	0.068	0.293	0.094	0.216	0.099	0.051
Mean i	0.125	0.42	0.098	0.161	0.214	0.55	0.068	0.29	0.094	0.216	0.098	0.050
MAD i	0.02	0.02	0.014	0.019	0.0075	0.018	0.0117	0.014	0.013	0.020	0.013	0.010
IQR i	0.030	0.035	0.024	0.029	0.023	0.026	0.018	0.02	0.020	0.032	0.021	0.018
Robust CV % i	25	7.9	25	19	19	4.9	27	6.8	21	15	21	36
Median f	0.119	0.445	0.09	0.15	0.117	0.54	0.068	0.293	0.094	0.216	0.099	0.051
Mean f	0.117	0.44	0.088	0.152	0.119	0.55	0.068	0.29	0.094	0.216	0.098	0.050
MAD f	0.016	0.020	0.012	0.016	0.007	0.018	0.012	0.014	0.013	0.020	0.013	0.010
IQR f	0.028	0.033	0.023	0.026	0.0074	0.026	0.018	0.02	0.020	0.032	0.021	0.018
Robust CV % f	24	7.4	26	17	6.3	4.9	27	6.8	21	15	21	36
Outliers	1	1	1	1	3	0	0	0	0	0	0	0
Stragglers	0	0	1	0	0	0	0	0	0	0	0	0

2007-08: Total N — full-pool (7A1 + 7A2 + Dumas)

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	112	113	114	21	22	23	24	51	52	53	54
No of results	37	37	37	37	33	33	33	33	38	38	38	38
Minimum	0.0098	0.0014	0.0099	0.0178	0.0026	0.0039	0.0073	0.0061	0.045	0.094	0.051	0.02
Maximum	1320	4393	1110	1570	1.06	0.61	0.632	0.37	0.402	0.75	0.33	0.11
Median i	0.12	0.415	0.098	0.152	0.112	0.53	0.067	0.292	0.097	0.221	0.100	0.051
Mean i	70.4	237	53.7	81.6	0.166	0.496	0.082	0.281	0.11	0.237	0.111	0.053
MAD i	0.018	0.023	0.017	0.02	0.008	0.027	0.0089	0.015	0.0129	0.0175	0.011	0.0095
IQR i	0.025	0.038	0.025	0.030	0.0093	0.045	0.012	0.029	0.019	0.027	0.018	0.015
Robust CV % i	21	9.1	26	20	8.3	8.5	18	9.9	20	12	18	29
Median f	0.116	0.412	0.0945	0.151	0.111	0.54	0.066	0.294	0.096	0.221	0.099	0.05
Mean f	0.113	0.419	0.090	0.149	0.113	0.538	0.065	0.289	0.096	0.221	0.100	0.051
MAD f	0.0085	0.014	0.011	0.011	0.006	0.023	0.0055	0.014	0.012	0.016	0.011	0.01
IQR f	0.017	0.022	0.019	0.018	0.007	0.039	0.009	0.027	0.016	0.024	0.017	0.014
Robust CV % f	15	5.4	20	12	6.3	7.3	14	9.2	17	11	17	29
Outliers	5	8	5	6	6	4	5	3	4	4	3	1
Stragglers	2	3	2	2	2	0	2	0	0	0	0	0

2007-08: Water Soluble Nitrate N— autocolour (7B1) mg/kg dry wt

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	15	15	15	15	14	14	14	14	12	11	12	12
Minimum	0.05	0.01	0.07	20	0.725	0.085	7.2	0.02	1.34	0.028	0.169	0.263
Maximum	17	20	61	48	37	66	54	66	63	4.1	11.7	8.8
Median i	14	16.6	51.1	38.9	32.4	50.85	20	52.2	48.5	0.5	8.65	0.555
Mean i	12.6	15.1	47.2	38	27.6	44.5	20.4	45.5	43.5	1.05	7.54	1.76
MAD i	1.1	0.7	4.1	1.9	1.7	6.2	2.45	6	3.15	0.45	1.01	0.215
IQR i	2.3	1.93	6.67	2.82	7.21	14.4	5.13	12.9	4.73	1.06	1.71	1.25
Robust CV % i	16	12	13	7.2	22	28	26	25	9.7	210	20	220
Median f	14.9	16.8	51.4	38.9	34	53	20.3	54	49	0.274	9	0.494
Mean f	14.9	16.5	52.2	38.6	33.6	52	20.6	53.5	48.4	0.377	8.89	0.455
MAD f	0.87	0.7	3.4	1.9	1	4	2.3	3	1.5	0.225	0.7	0.106
IQR f	1.48	0.908	6.12	2.82	1.26	5.93	3.65	7.26	3.37	0.311	1.12	0.187
Robust CV % f	10	5.4	12	7.2	3.7	11	18	13	6.9	110	12	38
Outliers	2	3	2	2	3	2	3	2	2	2	2	3
Stragglers	1	0	0	0	2	1	1	1	1	1	0	1

2007-08: KCl Extractable Nitrate N — autocolour (7C2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	17	17	17	17	17	17	17	17	19	18	19	19
Minimum	1.43	1.6	4.92	3.64	8.8	11	17.1	28.3	42	0.013	7	0.325
Maximum	19	47	59.4	41.6	35	57.3	24	57	79	3.72	11	2.1
Median i	14.1	17.1	50.8	38	30.5	50	21	50	48.3	0.282	8.6	0.631
Mean i	13.8	19.2	45.3	33.7	29.2	48.5	20.9	48.3	49.4	0.701	8.64	0.89
MAD i	1.1	1.1	4.3	1.9	1.5	2	1.7	2.1	2.7	0.2	0.35	0.17
IQR i	1.7	1.7	6.75	6.15	2	3.56	2.51	3.6	4.6	0.906	0.519	0.667
Robust CV % i	12	10	13	16	6.6	7.1	12	7.2	9.5	320	6.0	110
Median f	14.1	17.1	51	38.3	30.5	50.7	21	50.6	48.2	0.214	8.6	0.6
Mean f	14.3	17	50	38.8	30.4	51.6	20.9	50.8	47.7	0.2	8.6	0.561
MAD f	0.8	0.8	3.4	1.3	1.4	1.7	1.7	2.4	2.65	0.1	0.32	0.1
IQR f	1.48	1.32	5.78	2.04	2.22	3.71	2.51	3.71	4.47	0.139	0.5	0.119
Robust CV % f	11	7.7	11	5.3	7.3	7.3	12	7.3	9.3	65	5.8	20
Outliers	2	3	2	4	1	2	0	2	1	5	2	5
Stragglers	0	0	0	0	0	0	0	0	0	1	0	1

2007-08: KCl Ext. Ammonium N — autocolour (7C2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	112	113	114	21	22	23	24	51	52	53	54
No of results	22	22	22	22	21	21	21	21	21	21	21	21
Minimum	0.26	4.27	1.91	2.49	3.9	19.7	1.5	8.4	2.58	3.05	2.6	2.8
Maximum	75	125	53	65	30.3	53	21.2	52.2	19	42	12	7.9
Median i	12.45	43.4	18.65	24	7.6	44	16.4	25	13.2	30.6	7.4	4.5
Mean i	15	42.3	20.4	24.2	8.87	42.7	15.3	25.7	13.6	29.2	7.73	4.44
MAD i	1.3	5.45	2.5	2	0.78	3	1.4	2	1.2	1.8	0.6	0.6
IQR i	2.06	12.2	3.98	2.84	1.48	4.74	2.48	2.97	1.52	3.08	1.07	0.99
Robust CV % i	17	28	21	12	19	11	15	12	12	10	15	22
Median f	12.5	44.2	18.7	24	7.6	44	17	25	13.2	31	7.32	4.45
Mean f	12.6	44.7	18.5	24.5	7.87	44.5	16.5	25.3	13.6	30.6	7.29	4.27
MAD f	0.9	4.1	1.6	1	0.4	2.5	1	1.9	0.7	1	0.21	0.55
IQR f	1.59	5.86	2.37	2.08	0.927	4.08	1.88	2.22	1.5	2.15	0.363	0.984
Robust CV % f	13	13	13	8.6	12	9.3	11	8.9	11	6.9	5	22
Outliers	5	7	6	5	3	1	2	2	2	2	4	1
Stragglers	0	0	0	2	2	1	2	0	1	2	3	0

2007-08: Total P – all methods including 9A1 (% air dry)

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	112	113	114	21	22	23	24	51	52	53	54
No of results	18	18	18	18	21	21	21	21	23	22	23	22
Minimum	0.001	0.0018	0.0006	0.002	0.0020	0.00072	0.000311	0.00187	0.03	0.019	0.008	0.003
Maximum	450	1635	1009	411	0.06	0.209	0.04	0.08	0.111	0.067	0.059	0.061
Median i	0.044	0.2515	0.100	0.038	0.032	0.173	0.026	0.056	0.083	0.059	0.017	0.018
Mean i	25	91.1	56.1	22.9	0.031	0.165	0.023	0.052	0.082	0.056	0.020	0.021
MAD i	0.005	0.028	0.01	0.0027	0.002	0.015	0.0047	0.0041	0.0064	0.003	0.0012	0.0024
IQR i	0.0083	0.050	0.014	0.0041	0.0034	0.0274	0.008	0.0082	0.010	0.0039	0.0018	0.0040
Robust CV % i	19	20	14	11	11	16	31	15	12	6.6	11	22
Median f	0.044	0.248	0.1	0.038	0.032	0.177	0.0265	0.056	0.083	0.0605	0.0162	0.0175
Mean f	0.043	0.24	0.099	0.038	0.032	0.173	0.026	0.055	0.083	0.060	0.016	0.018
MAD f	0.0048	0.022	0.0077	0.001	0.001	0.016	0.0035	0.004	0.0056	0.0022	0.0008	0.0014
IQR f	0.0073	0.043	0.0129	0.0025	0.0017	0.025	0.0054	0.0079	0.0089	0.0030	0.0011	0.0022
Robust CV % f	17	17	13	6.5	5.4	14	20	14	11	4.9	6.6	12
Outliers	2	3	3	2	3	1	1	4	2	3	4	5
Stragglers	0	0	1	2	1	0	2	0	0	0	2	1

2007-08: Colwell Extractable P — manual (9B1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	12	12	12	12	12	12	12	12	14	14	14	14
Minimum	11.3	11.3	4.4	15.6	24	3	2.19	70.1	168	8.7	14.6	1
Maximum	215	257	184	187	159	419	110	222	1073	1273	420	86
Median i	37.55	152.4	54.15	28.6	27.5	95.5	5.1	76.7	205.8	82.35	21.85	8.4
Mean i	53.6	140	64.4	45.6	38.6	116	14.5	89.6	269	168	52.9	14.2
MAD i	2.9	16.5	2.65	2.85	2.15	6.8	1.26	3.2	17.5	8.25	3.7	1.77
IQR i	4.65	26.5	5	6.67	3.73	11.1	2.61	5.41	31.1	19.4	10.5	2.73
Robust CV % i	12	17	9.2	23	14	12	51	7.1	15	24	48	33
Median f	37.4	153	54.2	27.1	27	95.5	4.73	75.8	205	82.2	20	8.1
Mean f	37.4	147	54.3	27.3	27.6	96.5	5.04	76.2	207	84.2	20.7	8.86
MAD f	2.2	7.0	1.0	2.75	2.0	5.45	0.81	2.3	17.5	6.6	2.2	0.6
IQR f	3.37	21.5	1.52	3.84	3.19	9.58	1.89	4.46	24.8	9.34	3.71	2.37
Robust CV % f	9	14	2.8	14	12	10	40	5.9	12	11	19	29
Outliers	3	2	3	2	1	2	2	1	1	3	3	1
Stragglers	0	1	1	0	0	0	0	1	0	0	0	2

2007-08: Colwell Extractable P — autocolour (9B2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	12	12	12	12	9	9	9	9	9	9	9	9
Minimum	31	88	45	24	12	46	1.4	33	158	77.9	18.3	6.54
Maximum	43	176	64	35	32	124	11	84	309	111	53	36
Median i	35.25	152.5	52.1	30	26.5	88.7	5.4	71	202	82.4	19	7.4
Mean i	36.1	149	53.2	30	25.3	88.2	5.9	66.2	212	87.1	24.3	10.8
MAD i	2	8	3	2	2.5	10.3	0.61	4	11	4.5	0.7	0.86
IQR i	3.41	11.7	4.11	2.89	4.63	19.5	2.08	11.2	19.6	9.27	5.56	1.04
Robust CV % i	9.7	7.7	7.9	9.6	17	22	39	16	9.7	11	29	14
Median f	35.3	155	52.1	30	26.8	88.7	5.34	71	202	81.7	19	7.39
Mean f	36.1	154	53.2	30	27	88.2	5.28	70.3	205	84.1	19.3	7.6
MAD f	2	8	3	2	1.75	10.3	0.3	3.95	4	3.2	0.7	0.62
IQR f	3.41	11.9	4.11	2.89	4.06	19.5	0.632	9.4	12.6	8.65	1.78	0.982
Robust CV % f	9.7	7.7	7.9	9.6	15	22	12	13	6.2	11	9.4	13
Outliers	0	1	0	0	1	0	3	1	1	1	2	1
Stragglers	0	0	0	0	0	0	0	0	1	0	0	0

2007-08: Colwell Extractable P — pooled (9B1 + 9B2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	24	24	24	24	21	21	21	21	23	23	23	23
Minimum	11.3	11.3	4.4	15.6	12	3	1.4	33	158	8.7	14.6	1
Maximum	215	257	184	187	159	419	110	222	1073	1273	420	86
Median i	36.4	152.4	54.05	30	27	92.9	5.4	74.9	204	82.4	20.7	8.1
Mean i	44.9	145	58.8	37.8	32.9	104	10.8	79.6	247	136	41.7	12.9
MAD i	2.25	8.9	3.05	2.7	2.4	8.9	1.3	4.45	13	6.8	2.4	0.9
IQR i	4.19	19.8	4.1	3.6	3.74	13.2	2.44	7.14	23	10.5	7.19	2.68
Robust CV % i	12	13	7.6	12	14	14	45	9.5	11	13	35	33
Median f	35.8	154	54	30	27	92.9	5.14	74.9	203	82.1	19	7.8
Mean f	36.7	153	53.3	29.4	27.3	93.5	5.14	74.5	201	82.6	19.7	7.75
MAD f	1.9	6	2.9	2.1	2	6.1	0.955	3.9	12	5	1	0.55
IQR f	2.93	11.9	3.52	3.04	3.19	9.23	1.47	6.19	18.5	7.69	2.19	0.838
Robust CV % f	8.2	7.7	6.5	10	12	9.9	29	8.3	9.1	9.4	12	11
Outliers	3	4	3	3	2	3	3	2	3	5	5	5
Stragglers	0	1	0	0	0	1	0	0	0	0	1	2

2007-08: Olsen Extractable P — manual (9C1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	10	10	10	10	8	8	7	8	10	10	10	10
Minimum	16.01	22.1	7.5	15	9.1	21.9	1	24	57.03	25.32	8	2.3
Maximum	208	1310	317	146	21.2	49.7	3.047	47.5	108	1690	1873	690
Median i	18.65	53.3	24	19.15	11.15	28.8	1.4	29.67	93	40.5	10.75	4.55
Mean i	41	184	79.4	34.7	12	29.9	1.73	31.1	88.1	205	198	74.8
MAD i	1.5	14.8	2.75	1	1	3.3	0.4	3.82	6.85	6	2.63	1.5
IQR i	8.56	33.7	55.1	7.81	1.93	5.71	0.771	5.73	16	13.7	6.63	5.8
Robust CV % i	46	63	230	41	17	20	55	19	17	34	62	130
Median f	18.3	47	24	19	10.7	28.6	1.4	29.7	93.3	38	9.75	4
Mean f	18.4	50.6	24.7	19.3	10.7	27	1.73	31.1	94.6	40.4	10.2	4.21
MAD f	0.85	9.2	0.6	0.4	1.3	3	0.4	3.82	4.35	6	1.75	1.16
IQR f	1.8	18.7	2.21	1.04	2.08	5.19	0.771	5.73	8.1	10	3.4	1.91
Robust CV % f	9.8	40	9.2	5.5	19	18	55	19	8.7	26	35	48
Outliers	2	1	3	2	1	1	0	0	1	1	2	2
Stragglers	0	1	1	1	0	0	0	0	1	0	0	0

2007-08: Olsen Extractable P — autocolour (9C2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	11	11	11	11	9	9	9	9	10	10	10	10
Minimum	10	32	16.7	9.7	5	15	0.74	14	68	28.5	7.26	2.78
Maximum	16	50	23	18	13	35	5.1	31	111	51	16	6.2
Median i	13.8	41.9	21	12.7	9.9	25.1	1.43	27.2	81.5	33.5	8.26	4.23
Mean i	13.7	40	20.5	12.7	9.84	24.9	2.13	25.8	84.1	35.3	9.43	4.3
MAD i	0.8	5.1	1.1	1.4	0.7	1.9	0.62	1.9	8.25	3.05	0.61	1.03
IQR i	1.48	5.34	2	2.22	1.17	3.15	2.01	4	14.7	6.39	2.39	1.73
Robust CV % i	11	13	9.5	18	12	13	140	15	18	19	29	41
Median f	13.8	41.9	21	12.7	10	25.1	1.2	27.6	81.5	33	7.97	4.23
Mean f	13.7	40	20.5	12.7	10.4	24.9	1.32	27.3	84.1	33.6	8.29	4.3
MAD f	0.8	5.1	1.1	1.4	0.58	1.6	0.39	1.45	8.25	2.6	0.495	1.03
IQR f	1.48	5.34	2	2.22	0.988	2.59	0.734	2.67	14.7	5.41	0.797	1.73
Robust CV % f	11	13	9.5	18	9.9	10	61	9.7	18	16	10	41
Outliers	0	0	0	0	1	1	2	1	0	1	2	0
Stragglers	0	0	0	0	0	1	0	0	0	0	0	0

2007-08: Olsen Extractable P — Pooled (9C1 + 9C2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	21	21	21	21	17	17	16	17	20	20	20	20
Minimum	10	22.1	7.5	9.7	5	15	0.74	14	57.03	25.32	7.26	2.3
Maximum	208	1310	317	146	21.2	49.7	5.1	47.5	111	1690	1873	690
Median i	16	43.2	22.1	15	10.1	25.2	1.415	27.8	87	36.75	9.15	4.44
Mean i	26.7	108	48.6	23.2	10.8	27.2	1.95	28.3	86.1	120	104	39.6
MAD i	2.5	6.7	2.1	3.6	0.9	3.2	0.544	2.8	8.95	6.25	1.4	1.24
IQR i	3.71	12.7	3.19	5.26	1.76	4.63	0.938	4.39	15.2	9.73	3.52	2
Robust CV % i	23	29	14	35	17	18	66	16	17	26	38	45
Median f	15	42.5	21.9	15	10.1	25.2	1.4	27.8	87	35.4	8.25	4
Mean f	15.7	41	21.8	15.3	10.5	25.8	1.52	28	86.1	36.1	8.91	4.26
MAD f	2	5.7	1.9	3.6	0.9	2.65	0.444	2.1	8.95	4.6	0.453	1.08
IQR f	3.34	6.86	2.97	5.34	1.45	4.28	0.783	3.93	15.2	7.28	1.48	1.65
Robust CV % f	22	16	14	36	14	17	56	14	17	21	18	41
Outliers	2	3	3	2	2	1	2	2	0	2	3	2
Stragglers	0	1	0	0	0	0	0	0	0	0	2	0

2007-08: Bray-1 Extractable P — manual (9E1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	10	10	10	10	5	5	5	5	10	10	10	10
Minimum	2	2	3	1	2	1	0.002	3	5.9	2	0.699	0.095
Maximum	19	104	54	24	23	20	2.2	26	142	51	173	31
Median i	14.05	20.5	6.2	17.35	17.9	5.8	0.45	20.7	94.55	40.3	18.35	1.35
Mean i	13.8	30.2	12.5	14.6	15.1	10.3	0.692	18.9	88.2	36.5	30.3	4.14
MAD i	1	10	2.57	5.25	3.3	4.8	0.17	5	46.5	9.05	1.8	0.415
IQR i	1.98	16.4	6.93	12.6	9.04	12.4	0.907	11	84.3	15.8	7.06	0.773
Robust CV % i	14	80	110	73	51	210	200	53	89	39	38	57
Median f	14.1	20	4.75	17.4	17.9	5.8	0.365	20.7	94.6	40.3	18.9	1.2
Mean f	14.7	22	5.62	14.6	15.1	10.3	0.316	18.9	88.2	36.5	19	1.16
MAD f	0.7	6	1.57	5.25	3.3	4.8	0.125	5	46.5	9.05	0.65	0.4
IQR f	1.24	14.9	3.4	12.6	9.04	12.4	0.325	11	84.3	15.8	1.28	0.827
Robust CV % f	8.8	75	72	73	51	210	89	53	89	39	6.8	69
Outliers	1	1	2	0	0	0	1	0	0	0	3	1
Stragglers	1	0	0	0	0	0	0	0	0	0	1	0

2007-08: Bray-1 Extractable P — autocolour (9E2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	5	5	5	5	6	6	6	6	6	6	6	6
Minimum	10.7	11.5	2.8	15	11	1	0.1	2	73.9	40	15.6	0.613
Maximum	32	112	171	35	23	20	1	33	218	63	29	5.7
Median i	12.9	22	3.7	20.6	17.1	5.4	0.36	20.5	143.5	54.75	19.75	1.37
Mean i	16.8	38.2	37.5	22.4	17	7.33	0.467	18.5	149	52.8	20.5	2.15
MAD i	2.2	6.7	0.9	1.6	2	2.8	0.235	6.45	23.5	8.25	2.5	0.514
IQR i	9.9	41.7	63.8	8.45	4.45	6.63	0.545	12.9	52.8	16.5	5.26	1.87
Robust CV % i	77	190	1700	41	26	120	150	63	37	30	27	140
Median f	12.2	19.4	3.36	20	17.1	5.4	0.36	20.5	144	54.8	19.8	1.35
Mean f	13	19.7	4.11	19.3	17	7.33	0.467	18.5	149	52.8	20.5	1.44
MAD f	1.1	5.25	0.45	1.4	2	2.8	0.235	6.45	23.5	8.25	2.5	0.25
IQR f	3.67	10.5	2.42	4.23	4.45	6.63	0.545	12.9	52.8	16.5	5.26	0.907
Robust CV % f	30	54	72	21	26	120	150	63	37	30	27	67
Outliers	1	1	1	1	0	0	0	0	0	0	0	1
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

2007-08: Bray-1 Extractable P — pooled (9E1 + 9E2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	15	15	15	15	11	11	11	11	16	16	16	16
Minimum	2	2	2.8	1	2	1	0.002	2	5.9	2	0.699	0.095
Maximum	32	112	171	35	23	20	2.2	33	218	63	173	31
Median i	14	21	5.2	20.3	17.9	5.8	0.45	20.7	136	45.3	18.5	1.37
Mean i	14.8	32.9	20.8	17.2	16.2	8.69	0.569	18.7	111	42.6	26.6	3.4
MAD i	1.5	7.7	2.19	3.7	2.9	3.1	0.3	5	40	6	2.6	0.415
IQR i	2.89	15	4.3	7.56	3.26	12.1	0.504	10.8	50.5	9.01	3.85	0.636
Robust CV % i	21	71	83	37	18	210	110	52	37	20	21	46
Median f	14	20	4.28	20.6	18	5.8	0.365	20.7	136	49.4	18.5	1.2
Mean f	14.5	21.3	5.12	19.4	17.6	8.69	0.406	18.7	111	48	18.4	1.15
MAD f	1.1	6	1.27	1.6	2.45	3.1	0.19	5	40	8.85	1.15	0.3
IQR f	2.37	12.6	2.99	5.34	3.78	12.1	0.347	10.8	50.5	9.95	2.46	0.562
Robust CV % f	17	63	70	26	21	210	95	52	37	20	13	47
Outliers	2	2	3	2	1	0	1	0	0	2	3	2
Stragglers	0	0	0	2	0	0	0	0	0	0	1	1

2007-08: Phosphorus buffer index (9I2a + 9I2b + 9I2c) L/kg air dry wt

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	11	11	11	11	10	10	10	10	11	11	11	11
Minimum	104	618	211	24.2	42	60.7	904	153	43	38.4	40	70
Maximum	138	1088	253	63	98.5	1380	2950	1038	91.3	81	75.6	170
Median i	123	933	240	38.5	50.1	928	1060	169	66.2	61	56.6	141
Mean i	123	916	236	41.4	57.3	925	1270	255	66.9	60.2	56	137
MAD i	8	50	13	7.3	3.4	136	111	13	7.2	10.6	9.6	11
IQR i	11.9	86.7	21.5	18.1	13.3	265	276	23	9.41	15	13.9	16.3
Robust CV % i	9.6	9.3	9.0	47	27	29	26	14	14	25	25	12
Median f	123	939	240	38.5	49.5	935	1030	169	66.2	61	56.6	144
Mean f	123	946	236	41.4	49.8	1020	1080	168	66.9	60.2	56	144
MAD f	8	43.5	13	7.3	2.8	131	100	13	7.2	10.6	9.6	9.5
IQR f	11.9	78	21.5	18.1	4.32	239	206	14.8	9.41	15	13.9	15.6
Robust CV % f	9.6	8.3	9.0	47	8.7	26	20	8.8	14	25	25	11
Outliers	0	1	0	0	2	1	1	1	0	0	0	1
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

2007-08: Phosphorus buffer index (9I3a + 9I3b + 9I3c) L/kg air dry wt

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	5	5	5	5	3	3	3	3	3	3	3	3
Minimum	126	228	231	47	54.3	195	551	131	78	58	49	131
Maximum	154	1037	261	74.1	92.1	1202	1224	183	907	743	676	857
Median i	144	870	243	52.8	55.8	818	995	164	103	81.8	59.8	158
Mean i	139	750	245	56.6	67.4	738	923	159	363	294	262	382
MAD i	10	167	8	5.8	1.5	384	229	19	25	23.8	10.8	27
IQR i	15.9	419	15.6	13.5	28	746	499	38.5	615	508	465	538
Robust CV % i	11	48	6.4	26	50	91	50	24	600	620	780	340
Median f	144	870	243	52.8	55.1	818	995	164	90.5	69.9	54.4	145
Mean f	139	750	245	56.6	55.1	738	923	159	90.5	69.9	54.4	145
MAD f	10	167	8	5.8	0.75	384	229	19	12.5	11.9	5.4	13.5
IQR f	15.9	419	15.6	13.5		746	499	38.5				
Robust CV % f	11	48	6.4	26		91	50	24				
Outliers	0	0	0	0	1	0	0	0	1	1	1	1
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

2007-08: Phosphate Extractable S (10B3) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	13	13	13	13	10	10	10	10	10	10	10	10
Minimum	11.2	41	37	9	8.3	49	42	12	10	7.812	11	67
Maximum	100	490	148.9	200	14.5	245	163	36	29	38.5	20	100.5
Median i	16	104	54	12	12.15	157	144.5	29.5	12.95	21.55	15.3	80.65
Mean i	24.2	124	63.4	37.6	12	145	130	25.9	14.2	20.8	15.4	81.4
MAD i	3.0	16	9.0	1.0	1.85	12	12.5	6.1	1.16	2.5	1.92	4.65
IQR i	7.49	31.7	12.1	5.78	2.78	41.5	28.4	12.4	2.16	5.17	3.3	8.69
Robust CV % i	47	30	22	48	23	26	20	42	17	24	22	11
Median f	15.5	103	53	11.5	12.2	157	148	29.5	12.7	21.6	15.3	80.7
Mean f	15.1	94	50.5	11.4	12	157	147	25.9	12.6	20.2	15.4	81.4
MAD f	1.6	14.5	4.6	0.6	1.85	9.0	9.5	6.1	1.3	1.6	1.92	4.65
IQR f	2.89	31.8	8.9	1.31	2.78	14.1	16.7	12.4	2.3	4.06	3.3	8.69
Robust CV % f	19	31	17	11	23	9.0	11	42	18	19	22	11
Outliers	2	1	2	3	0	3	2	0	1	2	0	0
Stragglers	1	0	0	0	0	0	0	0	0	0	0	0

2007-08: KCl_{40} Extractable S (Blair *et al.*) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	11	11	11	11	11	11	11	11	11	11	11	11
Minimum	2	6.9	6	7.2	8.83	37.7	22.3	14.6	9.14	10.4	8.82	60.4
Maximum	25.8	60.7	56.8	21	116	314	168	281	67.1	95.2	54.6	228
Median i	9.94	40.8	39	10.7	11.4	50	31	19.4	11	15	11.4	76
Mean i	10.9	41	38.8	12.4	20.9	72.3	43.2	43.4	16.2	22.3	16.1	88
MAD i	1.06	4.2	5.2	1.98	0.6	1	2	1.4	1.08	1	1.97	4
IQR i	2.15	9.19	12.8	4	1.56	5.34	4.37	1.48	2.36	2.52	2.22	7.26
Robust CV % i	22	23	33	37	14	11	14	7.6	21	17	20	9.6
Median f	9.94	39.8	40	10.4	11.2	50	30.5	19.3	11	15	11.2	73.4
Mean f	10.2	40.4	42.1	11.5	11.1	49.9	30.7	19.5	11.1	15	11.5	71.9
MAD f	0.54	1.9	5.5	1.84	0.3	0	2.4	0.3	0.89	0.65	0.9	3.9
IQR f	1.67	4.61	13	3.02	0.445	0.259	3.41	1.07	1.7	1.17	2.1	8.15
Robust CV % f	17	12	33	29	4.0	0.52	11	5.6	15	7.8	19	11
Outliers	2	1	1	1	2	5	1	1	1	2	1	1
Stragglers	0	2	0	0	2	1	0	2	0	1	1	1

2007-08: DTPA Extractable Fe (12A1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	34	35	35	35	32	32	32	32	34	34	34	34
Minimum	2.8	22.4	4.8	5.4	6.3	22	0.74	1.2	12.3	17.2	16.1	6.69
Maximum	35000	90000	43000	11000	137	120	48	150	170	150	263	91
Median i	29.7	83	26	21	44.4	59	5.3	66.9	50.05	61.3	54.5	23.2
Mean i	1060	2660	1260	342	52.9	62.6	8.99	63.2	55.6	63.8	72.3	27.1
MAD i	3.64	14.3	5.0	4.0	11.1	8.65	2.3	9.3	7.9	13.7	28.4	4.95
IQR i	4.47	23.4	9.27	6.67	18.7	14.1	4.11	16.5	11.9	20.5	49.9	7.62
Robust CV % i	15	28	36	32	42	24	78	25	24	33	92	33
Median f	29.7	78	25.3	20.2	41.1	57.4	4.15	68	49	60.5	45.2	22.1
Mean f	29.4	81.1	26.7	20.6	45.1	58.1	4.7	67.3	49.6	59.5	57	23.6
MAD f	3.49	9.4	4.23	2.8	9.32	6.71	1.35	7	5.4	13	20.2	5.05
IQR f	4.45	12.6	6.91	4.74	15.3	10.2	2.4	11.3	8.49	18.8	43.1	7.24
Robust CV % f	15	16	27	23	37	18	58	17	17	31	95	33
Outliers	2	6	4	4	4	3	4	6	4	2	3	2
Stragglers	0	2	1	0	0	2	2	1	1	0	1	0

2007-08: DTPA Extractable Cu (12A1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	112	113	114	21	22	23	24	51	52	53	54
No of results	34	35	35	35	32	32	31	31	35	35	35	35
Minimum	0.12	0.5	1.8	0.01	0.1	0.1	0.0047	0.115	0.498	0.504	0.206	0.691
Maximum	17	49	23	6	9.58	14	1.42	28	3.45	4.85	2.197	3.64
Median i	2.2	4.47	3	0.55	1.035	1.2	0.05	2.75	1.68	1.39	0.43	1.4
Mean i	2.62	5.75	3.64	0.832	1.3	1.61	0.194	3.46	1.77	1.52	0.552	1.5
MAD i	0.19	0.73	0.3	0.1	0.135	0.19	0.034	0.2	0.18	0.14	0.1	0.17
IQR i	0.285	1.19	0.4	0.185	0.227	0.251	0.121	0.297	0.289	0.252	0.175	0.241
Robust CV % i	13	27	13	34	22	21	240	11	17	18	41	17
Median f	2.2	4.4	2.98	0.527	1.02	1.2	0.0375	2.75	1.67	1.35	0.4	1.4
Mean f	2.19	4.48	2.96	0.533	1.03	1.15	0.0405	2.76	1.66	1.37	0.409	1.42
MAD f	0.16	0.5	0.157	0.08	0.08	0.1	0.0125	0.05	0.165	0.13	0.03	0.17
IQR f	0.259	0.86	0.285	0.126	0.12	0.236	0.0182	0.089	0.261	0.185	0.059	0.231
Robust CV % f	12	20	9.6	24	12	20	48	3.2	16	14	15	16
Outliers	3	3	4	7	4	6	8	7	5	4	5	3
Stragglers	0	3	3	0	3	2	3	5	0	0	5	0

2007-08: DTPA Extractable Mn (12A1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	112	113	114	21	22	23	24	51	52	53	54
No of results	33	34	34	34	31	31	31	31	32	32	32	32
Minimum	93	91	28	37	47	13	0.002	27	34.5	16	1.5	19.1
Maximum	930	2600	730	610	382	152	3.8	638	190	99	6.12	270
Median i	157	202.5	46.67	122.3	142	106	0.7	236	93.75	54.6	4.62	34.85
Mean i	187	304	71.4	139	152	99.5	1.03	234	93.3	54.3	4.7	45.2
MAD i	12	22.5	4.5	9.9	15	10	0.238	20.4	8.22	4.05	0.315	6.0
IQR i	19.3	35.8	9.94	16.2	23.7	14.1	0.901	43	13.2	6.76	0.595	11.1
Robust CV % i	12	18	21	13	17	13	130	18	14	12	13	32
Median f	156	200	44.9	120	142	108	0.546	236	94	54.6	4.6	32.8
Mean f	157	201	45.1	122	143	109	0.52	236	93.9	54.3	4.63	33.7
MAD f	11	18	2.62	8	12	6.5	0.141	16	6	3.65	0.2	5.25
IQR f	17.4	25.2	4.13	12.6	16.6	11.1	0.198	24.5	10.4	6.1	0.371	7.93
Robust CV % f	11	13	9.2	11	12	10	36	10	11	11	8.1	24
Outliers	4	5	6	5	7	5	8	7	3	4	4	4
Stragglers	0	0	3	2	0	2	2	1	0	0	1	0

2007-08: DTPA Extractable Zn (12A1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	34	35	35	35	32	32	30	32	35	35	35	35
Minimum	0.26	4.9	1.9	1.5	0.309	2.1	0.004	0.035	0.904	2.04	0.001	0.73
Maximum	47	120	70	40	6.06	71	0.63	14	5.8	6	3.9	4
Median i	0.680	10.1	2.46	3.2	0.809	5.81	0.099	1.83	2.29	4.2	0.37	1.89
Mean i	2.09	13.7	4.57	4.39	1.04	7.98	0.119	2.13	2.36	4.18	0.523	1.86
MAD i	0.0915	0.9	0.24	0.2	0.07	0.8	0.05	0.27	0.19	0.4	0.07	0.19
IQR i	0.131	2.03	0.445	0.445	0.104	1.02	0.076	0.41	0.274	0.594	0.15	0.282
Robust CV % i	19	20	18	14	13	18	77	22	12	14	41	15
Median f	0.665	10	2.4	3.2	0.804	5.74	0.0915	1.85	2.28	4.2	0.345	1.89
Mean f	0.68	9.96	2.43	3.23	0.807	5.85	0.094	1.84	2.26	4.19	0.362	1.83
MAD f	0.076	0.69	0.2	0.188	0.050	0.45	0.048	0.17	0.165	0.4	0.042	0.18
IQR f	0.118	0.917	0.28	0.279	0.081	0.723	0.076	0.297	0.228	0.575	0.065	0.274
Robust CV % f	18	9.2	12	8.7	10	13	83	16	10	14	19	15
Outliers	5	8	4	7	6	5	2	4	3	2	6	4
Stragglers	1	0	2	0	2	3	0	1	0	0	3	0

2007-08: Hot $CaCl_2$ Extractable B — manual colour (12C1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	7	7	7	6	3	3	3	3	6	6	6	6
Minimum	0.398	0.5	1	0.084	0.7	0.51	0.22	0.76	0.51	0.968	0.252	1.46
Maximum	1.2	1.91	2.41	0.62	1.05	0.95	0.42	1.1	1.16	1.7	1.3	5.5
Median i	0.75	1.11	1.8	0.485	0.73	0.67	0.32	0.94	0.755	1.205	0.63	1.885
Mean i	0.773	1.2	1.67	0.431	0.827	0.71	0.32	0.933	0.772	1.26	0.692	2.43
MAD i	0.23	0.194	0.12	0.084	0.03	0.16	0.1	0.16	0.217	0.236	0.31	0.19
IQR i	0.356	0.39	0.514	0.193	0.259	0.326	0.148	0.252	0.362	0.447	0.539	0.96
Robust CV % i	47	35	29	40	36	49	46	27	48	37	86	51
Median f	0.75	1.11	1.81	0.485	0.73	0.67	0.32	0.94	0.755	1.21	0.63	1.79
Mean f	0.773	1.2	1.78	0.431	0.827	0.71	0.32	0.933	0.772	1.26	0.692	1.81
MAD f	0.23	0.194	0.015	0.084	0.03	0.16	0.1	0.16	0.217	0.236	0.31	0.19
IQR f	0.356	0.39	0.086	0.193	0.259	0.326	0.148	0.252	0.362	0.447	0.539	0.334
Robust CV % f	47	35	4.7	40	36	49	46	27	48	37	86	19
Outliers	0	0	1	0	0	0	0	0	0	0	0	1
Stragglers	0	0	2	0	0	0	0	0	0	0	0	0

2007-08: Hot $CaCl_2$ Extractable B — ICPAES (12C2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	21	21	21	21	21	21	20	21	16	16	16	16
Minimum	0.5	0.85	0.324	0.31	0.5	0.26	0.275	0.749	0.3	0.6	0.117	0.842
Maximum	2.2	3.7	3.1	0.918	1.34	1.07	1	1.77	0.84	1.88	0.8	3.18
Median i	1.06	1.66	2	0.656	1	0.62	0.644	1.35	0.589	1.1	0.396	2.4
Mean i	1.1	1.68	1.88	0.649	0.963	0.639	0.643	1.27	0.588	1.11	0.43	2.23
MAD i	0.18	0.32	0.31	0.143	0.1	0.169	0.249	0.18	0.107	0.213	0.141	0.46
IQR i	0.292	0.604	0.452	0.227	0.174	0.236	0.38	0.3	0.18	0.365	0.237	0.697
Robust CV % i	28	36	23	35	17	38	59	22	31	33	60	29
Median f	1.03	1.65	2	0.656	1.0	0.62	0.645	1.35	0.589	1.1	0.396	2.4
Mean f	1.05	1.58	2.03	0.649	1.01	0.639	0.643	1.27	0.588	1.11	0.43	2.23
MAD f	0.163	0.295	0.303	0.143	0.1	0.169	0.249	0.18	0.107	0.213	0.141	0.46
IQR f	0.261	0.584	0.454	0.227	0.144	0.236	0.38	0.3	0.18	0.365	0.237	0.697
Robust CV % f	25	35	23	35	14	38	59	22	31	33	60	29
Outliers	1	1	2	0	2	0	0	0	0	0	0	0
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

2007-08: Hot $CaCl_2$ Extractable B — pooled (12C1 + 12C2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	28	28	28	27	24	24	23	24	22	22	22	22
Minimum	0.398	0.5	0.324	0.084	0.5	0.26	0.22	0.749	0.3	0.6	0.117	0.842
Maximum	2.2	3.7	3.1	0.918	1.34	1.07	1	1.77	1.16	1.88	1.3	5.5
Median i	0.98	1.55	1.84	0.6	0.995	0.62	0.59	1.2	0.6	1.1	0.42	2.1175
Mean i	1.02	1.56	1.83	0.6	0.946	0.648	0.601	1.23	0.638	1.16	0.501	2.28
MAD i	0.197	0.415	0.36	0.13	0.11	0.14	0.199	0.225	0.118	0.213	0.169	0.448
IQR i	0.298	0.593	0.424	0.215	0.188	0.213	0.299	0.354	0.226	0.37	0.243	0.775
Robust CV % i	30	38	23	36	19	34	51	29	38	34	58	37
Median f	0.98	1.52	1.85	0.601	1.0	0.62	0.59	1.2	0.59	1.1	0.42	2.1
Mean f	0.978	1.48	1.88	0.62	1.0	0.648	0.601	1.23	0.613	1.16	0.463	2.13
MAD f	0.193	0.39	0.35	0.116	0.1	0.14	0.199	0.225	0.099	0.213	0.168	0.43
IQR f	0.291	0.593	0.415	0.2	0.157	0.213	0.299	0.354	0.199	0.37	0.249	0.701
Robust CV % f	30	39	22	33	16	34	51	29	34	34	59	33
Outliers	1	1	1	1	2	0	0	0	1	0	1	1
Stragglers	0	0	0	0	1	0	0	0	0	0	0	0

2007-08: Exchangeable Ca — 1M NH_4Cl extract (15A1) cmol+/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	19	19	19	19	19	19	19	19	19	19	19	19
Minimum	2.6	1.5	2.9	1.9	1.1	1	0.6	4.3	1.8	3.4	0.9	5
Maximum	93.6	54.3	115	95.3	6.31	5.7	5.77	45.4	12.1	22.08	5.78	26.8
Median i	20.1	9.65	40	10.4	5.36	5	2.93	22.5	9	15	4.2	19.7
Mean i	23	11.1	41.6	14.3	5.13	4.82	2.92	22.9	8.42	13.8	3.89	18.4
MAD i	0.9	0.65	3.7	0.9	0.41	0.5	0.13	1.1	0.61	0.9	0.44	3.7
IQR i	1.85	1.45	6.08	1.3	0.615	0.586	0.23	1.78	0.949	2.15	0.593	6.03
Robust CV % i	9.2	15	15	13	11	12	7.8	7.9	11	14	14	31
Median f	20.1	9.7	40	10.7	5.36	5.08	2.93	22.4	9.04	15.2	4.26	19.7
Mean f	20.2	9.57	40.9	10.8	5.35	5.15	2.89	22	9.08	15.1	4.2	18.4
MAD f	0.4	0.595	2.4	0.765	0.365	0.41	0.13	0.9	0.54	0.6	0.28	3.7
IQR f	0.852	0.906	4.15	1.14	0.563	0.545	0.185	1.52	0.771	0.953	0.474	6.03
Robust CV % f	4.2	9.3	10	11	11	11	6.3	6.8	8.5	6.3	11	31
Outliers	5	3	3	3	1	1	2	3	4	6	2	0
Stragglers	1	0	1	0	0	1	0	0	0	0	2	0

2007-08: Exchangeable Mg — 1M NH_4Cl extract (15A1) cmol+/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	19	19	19	19	19	19	19	19	19	19	19	19
Minimum	0.691	0.063	1.5	0.091	0.2	0.2	0.4	1.62	0.9	1	0.2	2.1
Maximum	21.2	351	39.8	21.9	1.19	1.31	7.13	13.7	6.17	5.7	4	10.8
Median i	11.8	2.13	31	3.68	0.8	0.956	4.92	8.8	4.29	4.18	0.917	8.95
Mean i	11	20.6	27.3	4.42	0.795	0.938	4.66	8.26	4.1	3.94	1.07	8.16
MAD i	0.4	0.16	2	0.38	0.051	0.066	0.17	0.34	0.34	0.21	0.083	0.81
IQR i	0.964	0.319	3.04	0.586	0.082	0.104	0.334	0.719	0.658	0.348	0.133	1.21
Robust CV % i	8.2	15	9.8	16	10	11	6.8	8.2	15	8.3	15	14
Median f	11.9	2.1	31.3	3.68	0.8	0.956	4.96	8.88	4.29	4.18	0.915	9.47
Mean f	11.8	2.09	31.4	3.62	0.806	0.96	5	8.86	4.27	4.2	0.908	9.25
MAD f	0.1	0.13	1.3	0.34	0.04	0.064	0.165	0.28	0.18	0.185	0.071	0.53
IQR f	0.371	0.174	2.19	0.534	0.069	0.082	0.28	0.393	0.33	0.282	0.101	0.852
Robust CV % f	3.1	8.3	7.0	15	8.7	8.6	5.6	4.4	7.7	6.7	11	9.0
Outliers	4	4	5	4	2	2	3	4	5	5	5	3
Stragglers	2	2	0	0	0	0	0	0	1	0	0	1

2007-08: Exchangeable Na — 1M NH_4Cl extract (15A1) cmol+/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	19	19	19	18	18	19	19	19	18	18	18	17
Minimum	0.057	0.026	0.661	0.007	0.0025	0.01	0.1	0.05	0.02	0.01	0.03	0.19
Maximum	4.74	64.1	16.1	4.55	14.05	8.15	27.41	16.22	0.56	0.65	0.366	19
Median i	0.57	0.37	6.02	0.089	0.050	0.175	0.517	0.26	0.1285	0.111	0.165	15.4
Mean i	0.906	3.82	5.61	0.442	0.881	0.642	2.18	1.58	0.176	0.159	0.184	12.1
MAD i	0.047	0.02	0.61	0.039	0.030	0.035	0.072	0.05	0.0475	0.058	0.0435	2.4
IQR i	0.0771	0.033	1.02	0.105	0.044	0.0734	0.11	0.082	0.0934	0.104	0.069	7.35
Robust CV % i	14	8.8	17	120	87	42	21	31	73	94	42	48
Median f	0.57	0.37	6.25	0.066	0.04	0.17	0.509	0.239	0.12	0.11	0.16	15.9
Mean f	0.573	0.372	6.09	0.066	0.0435	0.177	0.507	0.256	0.125	0.13	0.173	16.2
MAD f	0.029	0.01	0.395	0.022	0.022	0.02	0.037	0.029	0.039	0.055	0.04	0.6
IQR f	0.043	0.015	0.569	0.034	0.036	0.051	0.064	0.061	0.059	0.090	0.065	1.48
Robust CV % f	7.6	4.0	9.1	50	89	30	13	25	49	82	41	9.3
Outliers	6	6	5	3	3	3	4	4	3	1	1	3
Stragglers	0	2	0	2	0	1	1	0	0	0	0	3

2007-08: Exchangeable K — 1M NH_4Cl extract (15A1) cmol+/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	19	19	19	19	19	19	19	19	19	19	19	19
Minimum	0.11	0.13	0.113	0.051	0.021	0.171	0.09	0.224	0.1	0.1	0.04	0.09
Maximum	15.5	20	4.8	17.3	1.7	1.1	0.53	2.1	1.2	0.96	0.48	1.45
Median i	1.5	1.57	1.9	0.3	1.18	0.86	0.468	1.7	0.59	0.506	0.15	0.381
Mean i	2.2	2.38	2.04	1.23	1.12	0.792	0.436	1.59	0.558	0.468	0.158	0.405
MAD i	0.11	0.12	0.16	0.03	0.09	0.14	0.034	0.16	0.067	0.042	0.032	0.079
IQR i	0.141	0.156	0.267	0.033	0.163	0.187	0.052	0.245	0.146	0.108	0.095	0.148
Robust CV % i	9.4	9.9	14	11	14	22	11	14	25	21	63	39
Median f	1.5	1.58	1.9	0.3	1.19	0.879	0.479	1.7	0.606	0.509	0.15	0.381
Mean f	1.51	1.56	1.88	0.306	1.21	0.863	0.467	1.74	0.595	0.51	0.13	0.362
MAD f	0.08	0.065	0.07	0.016	0.09	0.121	0.035	0.15	0.051	0.029	0.03	0.049
IQR f	0.141	0.122	0.145	0.030	0.15	0.182	0.052	0.208	0.088	0.049	0.095	0.12
Robust CV % f	9.4	7.7	7.6	9.9	13	21	11	12	15	9.7	63	32
Outliers	4	5	6	4	3	2	2	2	4	5	2	1
Stragglers	0	0	0	0	0	0	0	0	0	0	0	1

2007-08: Exchangeable Ca — 1M NH_4OAc extract (15D3) cmol+/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	22	22	22	22	19	19	19	19	21	21	21	21
Minimum	17.2	7	19	7.74	4.55	4.08	2.49	17.3	7.57	13.4	3.51	8.65
Maximum	49.8	18.77	87.36	109.8	6.4	5.7	4.52	24.5	10	17.9	5.3	37.5
Median i	20.65	8.24	37.4	10.65	5.37	4.7	2.79	21.4	9.34	15.7	4.08	19.3
Mean i	23	8.92	39.2	15.7	5.47	4.77	2.92	21.1	9.19	15.6	4.11	21
MAD i	1.25	0.535	2.96	0.7	0.359	0.26	0.1	0.9	0.41	0.7	0.201	2.2
IQR i	1.78	1.01	5.36	1.29	0.43	0.437	0.23	2.39	0.719	1.14	0.36	4.19
Robust CV % i	8.6	12	14	12	8	9.3	8.2	11	7.7	7.3	8.8	22
Median f	20.5	8.22	37.7	10.6	5.37	4.7	2.78	21.7	9.43	15.7	4	19.1
Mean f	20.9	8.45	38.5	10.7	5.47	4.77	2.77	21.5	9.27	15.6	4	19.9
MAD f	0.95	0.52	2.9	0.492	0.359	0.26	0.064	0.7	0.39	0.7	0.215	1.5
IQR f	1.71	0.884	5.11	1.01	0.43	0.437	0.098	1.19	0.612	1.14	0.367	2.99
Robust CV % f	8.3	11	14	9.5	8.0	9.3	3.5	5.5	6.5	7.3	9.2	16
Outliers	2	1	2	4	0	0	2	1	1	0	2	3
Stragglers	0	0	1	0	0	0	1	1	0	0	0	1

2007-08: Exchangeable Mg — 1M NH_4OAc extract (15D3) cmol+/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	22	22	22	22	19	19	19	19	21	21	21	21
Minimum	9.44	1.57	11	0.24	0.697	0.749	0.338	1.55	3.3	1.44	0.74	6.75
Maximum	24.55	4.3	50.19	7.36	1.12	1.13	5.43	9.29	4.6	4.58	1.12	10.89
Median i	11.72	1.915	28.4	3.40	0.76	0.932	4.86	8.51	4.32	4.2	0.913	8.98
Mean i	12.3	2.03	27.4	3.54	0.81	0.936	4.61	7.94	4.28	4.05	0.917	8.79
MAD i	0.484	0.09	2.01	0.135	0.036	0.058	0.13	0.36	0.16	0.193	0.057	0.407
IQR i	0.798	0.153	4.65	0.248	0.080	0.1	0.242	0.823	0.263	0.268	0.094	0.689
Robust CV % i	6.8	8.0	16	7.3	11	11	5.0	9.7	6.1	6.4	10	7.7
Median f	11.7	1.89	29	3.39	0.747	0.932	4.86	8.58	4.35	4.2	0.913	8.98
Mean f	11.8	1.92	28.8	3.41	0.758	0.936	4.81	8.5	4.33	4.22	0.917	8.79
MAD f	0.4	0.09	1.52	0.105	0.014	0.058	0.13	0.28	0.175	0.16	0.057	0.39
IQR f	0.649	0.143	2.22	0.156	0.040	0.1	0.221	0.487	0.25	0.262	0.094	0.511
Robust CV % f	5.5	7.6	7.7	4.6	5.4	11	4.5	5.7	5.8	6.2	10	5.7
Outliers	2	1	4	3	3	0	2	2	1	2	0	2
Stragglers	0	0	1	1	2	0	0	0	0	0	0	0

2007-08: Exchangeable Na — 1M NH_4OAc extract (15D3) cmol+/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	21	21	21	21	19	19	19	19	20	20	20	20
Minimum	0.47	0.3	0.74	0.01	0.01	0.15	0.43	0.22	0.061	0.01	0.121	4.15
Maximum	6.1	1.54	8.44	6.54	0.821	0.966	5.11	9.03	1.15	0.51	0.63	18.8
Median i	0.57	0.37	5.76	0.061	0.057	0.205	0.503	0.298	0.118	0.079	0.16	16.01
Mean i	0.926	0.45	5.68	0.4	0.132	0.277	0.789	0.79	0.192	0.12	0.192	15.4
MAD i	0.054	0.04	0.25	0.029	0.032	0.045	0.054	0.069	0.028	0.028	0.026	0.75
IQR i	0.192	0.063	0.481	0.062	0.076	0.116	0.119	0.122	0.054	0.058	0.045	1.1
Robust CV % i	34	17	8.4	100	130	57	24	41	45	73	28	6.9
Median f	0.535	0.362	5.76	0.06	0.0345	0.173	0.496	0.275	0.11	0.0724	0.155	16.1
Mean f	0.548	0.366	5.8	0.075	0.0474	0.189	0.511	0.296	0.117	0.083	0.161	16.2
MAD f	0.035	0.04	0.16	0.027	0.016	0.014	0.048	0.052	0.018	0.017	0.017	0.65
IQR f	0.047	0.055	0.245	0.059	0.031	0.044	0.072	0.093	0.047	0.041	0.04	1.09
Robust CV % f	8.9	15	4.2	98	90	25	15	34	43	57	26	6.8
Outliers	5	3	5	2	4	3	3	3	2	2	2	2
Stragglers	1	0	1	0	1	2	0	0	0	1	0	0

2007-08: Exchangeable K — 1M NH_4OAc extract (15D3) cmol+/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	**112**	**113**	**114**	**21**	**22**	**23**	**24**	**51**	**52**	**53**	**54**
No of results	23	23	23	23	19	19	19	19	22	22	22	22
Minimum	0.27	0.309	0.296	0.16	0.060	0.131	0.383	0.186	0.6	0.48	0.154	0.346
Maximum	2.1	1.72	2.443	1.65	1.823	1.333	1.082	2.817	0.769	0.642	0.267	2.133
Median i	1.4	1.428	1.66	0.29	1.16	0.844	0.46	1.67	0.654	0.532	0.18	0.430
Mean i	1.4	1.36	1.59	0.352	1.15	0.848	0.504	1.67	0.665	0.542	0.19	0.532
MAD i	0.1	0.072	0.15	0.03	0.08	0.037	0.032	0.09	0.018	0.029	0.01	0.067
IQR i	0.148	0.119	0.274	0.044	0.126	0.082	0.050	0.113	0.037	0.044	0.02	0.115
Robust CV % i	11	8.3	17	15	11	9.7	11	6.8	5.7	8.2	11	27
Median f	1.4	1.45	1.66	0.276	1.15	0.842	0.46	1.68	0.638	0.533	0.179	0.417
Mean f	1.4	1.44	1.64	0.285	1.14	0.834	0.457	1.68	0.641	0.542	0.183	0.436
MAD f	0.08	0.051	0.09	0.019	0.07	0.027	0.028	0.05	0.02	0.029	0.009	0.0545
IQR f	0.12	0.089	0.141	0.035	0.106	0.066	0.045	0.092	0.026	0.044	0.017	0.099
Robust CV % f	8.6	6.1	8.5	13	9.2	7.8	9.7	5.5	4	8.2	9.8	24
Outliers	3	4	3	3	3	3	2	3	5	0	2	2
Stragglers	0	0	3	1	0	0	0	2	0	0	0	0

2007-08: Exchangeable Al — 1M KCl (15G1) cmol+/kg air dry

Statistical parameters	Soil sample identification and values											
	November 2007 (Round 207)				*February 2008 (Round 407)*				*May 2008 (Round 607)*			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	111	112	113	114	21	22	23	24	51	52	53	54
No of results	15	15	15	15	13	13	13	13	16	16	16	16
Minimum	0.0006	0.015	0.0004	0.0002	0.001	0.012	0.008	0.001	0.0006	0.0004	0.012	0.0001
Maximum	0.172	0.412	0.19	0.125	1.67	0.745	0.184	1.16	0.118	0.101	0.553	0.068
Median i	0.015	0.136	0.006	0.01	0.011	0.61	0.096	0.01	0.0115	0.0094	0.1885	0.012
Mean i	0.0354	0.157	0.0316	0.0219	0.165	0.472	0.087	0.116	0.0298	0.02	0.189	0.0186
MAD i	0.0102	0.07	0.005	0.008	0.0092	0.13	0.036	0.005	0.0096	0.0079	0.074	0.007
IQR i	0.0231	0.115	0.0153	0.0128	0.0712	0.379	0.071	0.0319	0.0278	0.012	0.132	0.019
Robust CV % i	150	84	250	130	650	62	74	320	240	130	70	160
Median f	0.0085	0.136	0.0055	0.0065	0.0073	0.611	0.096	0.008	0.0105	0.007	0.179	0.0069
Mean f	0.0117	0.157	0.0068	0.0086	0.0087	0.511	0.087	0.0077	0.0134	0.0092	0.165	0.008
MAD f	0.007	0.07	0.0042	0.0053	0.0047	0.12	0.036	0.003	0.0042	0.005	0.079	0.005
IQR f	0.0125	0.115	0.0064	0.01	0.0071	0.32	0.071	0.0054	0.0092	0.0104	0.116	0.0072
Robust CV % f	150	84	120	150	98	52	74	67	87	150	65	110
Outliers	2	0	3	2	3	1	0	4	2	3	1	3
Stragglers	1	0	0	1	1	0	0	0	2	0	0	1

4. Comments on Measurement Performance

Detailed evaluation of measurement performance is beyond the scope of this report. Such evaluations mostly occur at ASPAC Workshops, at other national and international meetings, and in the scientific literature. However, it is appropriate to make a few brief observations.

The median robust % CVs across the 12 samples, after the removal of “outliers” and “stragglers”, ranged from 1.3 to 92.5%. This covered 38 tests (not counting pooled tests) reported by a minimum of six laboratories. Table 5 provides the identity of the 10 best performed and 10 worst performed tests, with their corresponding (final) median robust % CVs, noting that for Colwell (9B), Olsen (9C) and Bray-1 extractable P (9E) tests, only combined or pooled data (manual + autocolour finishes) rather than individual analytical finishes were considered for tabulation. The best-performed extractable P test was the autocolour finish of Colwell (9B2), followed by Olsen and Bray-1 (both with autocolour finish), which is in keeping with findings from previous ILPPs. Had individual P analytical finishes been considered then Bray P manual, automated and pooled tests would have been the second, fourth and fifth worst performed tests. Olsen P manual 9C1 would have been in the six worst tests for 2006-07 but not in 2007-08, suggesting laboratories are doing this test with better precision. Again water-soluble Cl by potentiometric titration (5A1) was less well performed than its autocolour counterpart (5A2)., and along with Bray-1 P tests was less well performed than in 2006-

07. Both analytical finishes for hot $CaCl_2$ extractable boron featured in the worst performed category. Water soluble nitrate_N (7B1) featured in the six worst performed test in 2006-07, but in 2007-08 the test was much better performed (11.5% cf 25.5%).

It was pleasing to see the grand median final robust CV across the 38 tests was 11.0 for 2007-08, compared to 13.5% in 2006-07 and 14.0% in 2005-06. Median robust CV's across all tests ranged from 8.3% for test soil ASS112 to 19% for ASS54. Test soil ASS23 which was deemed to be not homogenous had a median robust CV of 14%, the third highest of the 12 soils. The data summaries in Section 3 show generally very good agreement between final median and mean values, but there are examples of large differences between the two, suggesting skewed data. This again emphasizes the importance of using medians and MADs, which are less influenced by 'rogue' results in small data sets.

Table 5. The 10 best performed and 10 worst performed soil chemical tests, based on percent robust coefficients of variation (grand medians) after the removal of "outliers" and "stragglers".

Best (Lowest Robust %CVs)	
Soil Method	***%CV***
Soil pH, 1:5 0.01 M $CaCl_2$ (4B2)	1.30
Soil pH, 1:5 water (4A1)	2.10
Soil pH, 1:5 0.01 M $CaCl_2$ 4B1)	2.20
Total Organic Carbon (6B3)	4.3
Exch Mg, NH_4OAc (15D3)	5.8
EC, 1:5 water (3A1)	6.3
Exch Mg, NH_4Cl (15A1)	8.0
KCl Extractable Nitrate N (7C2)	8.5
Exch K, NH_4OAc (15D3	8.6
Exch Ca, NH_4OAc (15D3	8.8

Worst (Highest Robust %CVs)	
Soil Method	***%CV***
Total N Dumas (7A5)	19.0
Olsen P manual (9C1)	19.0
DTPA extr. Fe (12A1)	25.0
Exch Na, NH_4OAc (15D3)	25.5
Exch Na, NH_4Cl (15A1)	27.5
Hot $CaCl_2$ Extractable B (12C2)	32.0
Hot $CaCl_2$ Extractable B (12C1)	38.5
Bray P (pooled) (9E1 + 9E2)	42.0
Water soluble Cl - potentiometric (5A1)	48.0
Exchangeable Al (15G1)	92.5

Consistent with the observations made in earlier annual reports, the measurement performance of exchangeable Al by method 15G1 (1M KCl extraction) worsened (as judged by final robust CVs) as soil hydrogen ion concentrations decreased. When soil pH in water 1:5 (4A1), exceeds 5.5, exchangeable Al concentrations will be very low and near reporting limits, thus robust CV's will be high. In 2006-07 for soils with pHw of ≤5.5, the median robust CV was calculated to be 34.5%. However in 2007-08, four soils had pHw ≤5.5 and for these soils the median robust CV was calculated to be 69.5%. This puts this test along with Bray-1 P (manual 9E1) as the two worst performed tests in 2007-08.

Appendix 1: Laboratories in ASPAC's Soil ILPP, 2007-08

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Appendix 2: Summary examples of homogeneity data and statistical assessments for soil samples used in the ASPAC Soil ILPP in 2007-08.

Sample name		ASS 111-07	ASS 112-07	ASS 113-07	ASS 114-07	ASS 21-08	ASS 22-08	ASS 23-08	ASS 24-08	ASS 51-08	ASS 52-08	ASS 53-08	ASS 54-08
Test Method		Dumas N	Dumas N	Dumas N	Dumas N	Dumas N	Dumas N	Dumas N	Dumas N	Dumas N	Dumas N	Dumas N	Dumas N
Sample 1	replicate 1	0.124	0.428	0.0922	0.121	0.118	0.543	0.0415	0.293	0.0964	0.208	0.0746	0.055
	replicate 2	0.122	0.425	0.0867	0.126	0.114	0.500	0.0677	0.288	0.0928	0.182	0.0872	0.053
Sample 2	replicate 1	0.126	0.422	0.0817	0.13	0.117	0.523	0.0462	0.295	0.0944	0.189	0.0794	0.046
	replicate 2	0.122	0.417	0.0858	0.133	0.112	0.499	0.0509	0.288	0.0953	0.178	0.076	0.055
Sample 3	replicate 1	0.120	0.424	0.0805	0.139	0.115	0.497	0.055	0.293	0.0975	0.185	0.0802	0.042
	replicate 2	0.122	0.426	0.0886	0.134	0.100	0.502	0.0539	0.287	0.0964	0.193	0.0778	0.053
Sample 4	replicate 1	0.124	0.421	0.0787	0.124	0.116	0.494	0.0548	0.295	0.0955	0.194	0.0779	0.042
	replicate 2	0.118	0.415	0.0837	0.128	0.116	0.508	0.0484	0.287	0.0940	0.195	0.0711	0.054
Sample 5	replicate 1	0.126	0.413	0.0803	0.135	0.111	0.526	0.0543	0.293	0.0965	0.194	0.0813	0.039
	replicate 2	0.122	0.411	0.0731	0.129	0.113	0.496	0.0452	0.286	0.0923	0.206	0.0715	0.054
Sample 6	replicate 1	0.120	0.421	0.0883	0.132	0.126	0.503	0.061	0.298	0.0952	0.207	0.0749	0.044
	replicate 2	0.118	0.427	0.0741	0.136	0.110	0.519	0.0451	0.294	0.0928	0.205	0.0748	0.056
Sample 7	replicate 1	0.121	0.43	0.0796	0.129	0.108	0.521	0.055	0.291	0.0967	0.210	0.0742	0.042
	replicate 2	0.122	0.428	0.0834	0.126	0.116	0.514	0.0332	0.302	0.0967	0.195	0.0667	0.057
Sample 8	replicate 1	0.121	0.427	0.0831	0.131	0.118	0.510	0.062	0.278	0.0959	0.199	0.0825	0.040
	replicate 2	0.125	0.427	0.0811	0.129	0.113	0.508	0.031	0.29	0.0944	0.186	0.076	0.055
Sample 9	replicate 1	0.120	0.426	0.0832	0.13	0.117	0.495	0.051	0.296	0.0940	0.204	0.0777	0.039
	replicate 2	0.120	0.425	0.0782	0.136	0.119	0.535	0.0368	0.29	0.0958	0.196	0.0872	0.055
Sample 10	replicate 1	0.123	0.418	0.08	0.134	0.115	0.536	0.052	0.296	0.0934	0.188	0.0671	0.047
	replicate 2	0.122	0.426	0.0857	0.127	0.113	0.515	0.0343	0.289	0.0942	0.206	0.0709	0.043
Mean		0.122	0.423	0.0824	0.1303	0.114	0.512	0.0489	0.292	0.095	0.196	0.0765	0.0503
Analytical SD		0.0001	0.003	0.0048	0.0032	0.0056	0.0172	0.0123	0.0052	0.0015	0.0095	0.0051	0.0077
Sampling SD		0.0023	0.0046	0.001	0.0033	0.0023	0.009	0.0075	0.0009	0.0003	0.0009	0.0043	0.0034
SD of proficiency data		0.0237	0.0289	0.0178	0.0237	0.0104	0.0323	0.0174	0.02	0.0188	0.0304	0.0193	0.0156
Homogeneity index		0.0055	0.1577	0.0588	0.1386	0.224	0.2781	0.434	0.0428	0.0154	0.0294	0.125	0.2153
Status		**H**	**H**	**H**	**H**	**H**	**H**	**NH ****	**H**	**H**	**H**	**H**	**H**
F-statistic		0.9934	5.56	0.9063	3.0496	0.653	0.453	0.2564	0.9455	0.929	0.982	1.442	0.619
F critical		3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02
F-statistic < F critical		**Y**	**N ***	**Y**	**N ***	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**

* For sample ASS 112-07 and ASS 114-07, there were statistically significant differences between samples - but not at a level where proficiency assessments were unduly influenced

** Sample ASS 23-08 was determined to be inhomogenous but this was most likely the result of an extremely tight ILCP data set with a lower than expected variance. After close examination assessments made on this sample were retained and deemed to be fair.

Note: All samples were assessed using ISO REMCO N231

Appendix 3: Statistical procedures used by ASPAC for its Soil ILPP, 2007-08

Refer to Table 4 for a description of most statistical terms and their meaning. Of most significance is the "median / MAD" non-parametric, iterative procedure for identifying "outliers" (††) and "stragglers" (†) within datasets for particular tests and samples from multiple (typically 6 or greater) laboratories. See references in the body of the report for more details. Also, the median is regarded as a good estimate of the true mean (μ), while the MAD; ie. the median of the absolute deviations from the median, is regarded as a good estimate of the standard deviation (@).

After tabulating the data with a separate column for each sample result and a separate row for each laboratory, calculations were applied iteratively. Each iteration operated at an action level of [(X- μ)/f@] (called the "ASPAC Score" for convenience) > 2, where "X" is the value reported by the laboratory (one replicate assumed), "μ" is the median of the population of values, and "f@" is a code for the Gaussian distribution of the sample size "n", approximated by [0.7722 + 1.604/n * t, with t = the Student's "t" for 2.5% (two-tailed) with n-1 degrees of freedom]. Excluding any case when a laboratory reported no result (or a non-numeric value) [these were automatically excluded], the laboratories at first iteration with an "ASPAC score" > 2 were rated as "outliers" (††). Following their removal (if any), the remaining population of laboratory data were subject to a second iteration involving a recalculation of the "ASPAC score". Where this was again >2, the relevant laboratories were rated as "stragglers" (†).

Further iterations can be undertaken if the sample is targeted for upgrading to the status of a reference, only to converge the mean and the median, thereby providing a more likely "correct" reference result.

The other statistics summarised in Table 4 were calculated on the same populations of data. However, only the first (i) and second (final; f) values appear in the data summaries in Section 3.

Appendix 4: "Raw" program data for the 12 samples across three "rounds".

The following tabulations list the "raw" data provided by participating laboratories for each method, with unnecessary precision removed after completion of statistical tests to assist data presentation. Statistical "outliers" and "stragglers" are indicated by †† and †, respectively.

Lab. Code #	Method Codes	Soil sample identification and values for Electrical conductivity 1:5 soil-water (3A1) dS/m air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L003	3A1	0.111		0.226		0.56		0.115																	
L004	3A1	0.111		0.189		0.505		0.115		0.1701	††	0.2687	††	0.165	††	0.240	††	0.173		0.072		0.06		1.932	
L005	3A1	6.9	††	10.1	††	34.6	††	6.9	††																
L006	3A1	0.11		0.208		0.515		0.113		0.108		0.206		0.11		0.189		0.165		0.066		0.057		2.04	
L007	3A1	0.13		0.23		0.64		0.12		0.12		0.23		0.13		0.23	†	0.18		0.08		0.06		2.1	
L008	3A1	0.11		0.2		0.51		0.11		0.11		0.207		0.117		0.195		0.175		0.073		0.061		1.99	
L009	3A1	0.012	††	0.0222	††	0.053	††	0.0117	††	0.121		0.233		0.122		0.213		0.19		0.0891		0.0684		2.08	
L011	3A1	0.1		0.21		0.55		0.11		0.1		0.21		0.1	†	0.19		0.16		0.07		0.06		19.8	††
L012	3A1									0.545	††	0.0012	††	0.517	††	0.002	††	0.0024	††	0.102		0.082	††	2.24	
L013	3A1	0.1		0.19		0.5		0.11		0.11		0.21		0.11		0.2		0.17		0.08		0.06		2.08	
L014	3A1	0.58	††	0.43	††	1.67	††	0.4	††									0.6	††	0.34	††	0.19	††	5.78	††
L015	3A1	0.118		0.203		0.55		0.112		0.105		0.202		0.112		0.195		0.174		0.08		0.061		1.996	
L018	3A1	0.107		0.188		0.518		0.104		0.116		0.219		0.118		0.207		0.187		0.077		0.066		2.136	
L019	3A1	0.129		0.201		0.626		0.112		0.105		0.191		0.106		0.192									
L022	3A1	0.119		0.204		0.585		0.117		0.111		0.204		0.115		0.203		0.175		0.087		0.062		2.052	
L023	3A1	0.13		0.21		0.59		0.11		0.12		0.24		0.13		0.25	††	0.2		0.1		0.07		2.1	
L024	3A1	0.117		0.195		0.667		0.105		0.17	††	0.156	††	0.155	††	0.277	††	0.226	††	0.092		0.069		0.222	††
L026	3A1	0.142	†	0.204		0.655		0.12		0.111		0.195		0.121		0.228	†	0.183		0.091		0.063		1.987	
L027	3A1	0.176	††	0.251	††	0.653		0.145	††	0.136	†	0.253	†	0.146	††	0.241	††	1.82	††	0.072		0.066		2.07	
L028	3A1	0.12		0.22		0.58		0.12		0.11		0.21		0.12		0.2		0.17		0.08		0.06		2	
L030	3A1	0.14	†	0.2		0.629		0.119		0.104		0.185		0.115		0.212		0.178		0.088		0.064		1.92	
L032	3A1	0.11		0.21		0.545		0.113		0.113		0.214		0.116		0.201		0.181		0.065		0.065		2.04	
L035	3A1	0.22	††	0.201		0.631		0.133		130	††	240	††	121	††	246	††	0.238	††	0.139	††	0.924	††	2.24	
L036	3A1	0.112		0.208		0.553		0.113		0.109		0.212		0.11		0.195		0.163		0.073		0.059		1.88	
L040	3A1	0.11		0.206		0.542		0.118		0.11		0.209		0.112		0.195		0.168		0.078		0.061		2.02	
L042	3A1	0.11		0.21		0.57		0.12		0.11		0.22		0.12		0.21		0.18		0.08		0.06		2.12	
L044	3A1	0.108		0.219		0.563		0.113		0.113		0.22		0.117		0.203		0.177		0.079		0.065		2.1	
L045	3A1									0.13	†	0.22		0.11		0.18	†								
L046	3A1	0.115		0.218		0.559		0.115		0.11		0.195		0.117		0.2		0.174		0.065		0.057		2.12	
L055	3A1	0.117		0.238		0.61		0.127		0.114		0.235		0.136	†	0.206		0.184		0.083		0.067		2.15	
L056	3A1	0.11		0.21		0.58		0.1		0.1		0.2		0.11		0.2		0.17		0.07		0.05		2.08	
L063	3A1	0.09	†	0.16	††	0.42		0.09	††	0.1		0.2		0.1	†	0.19									
L064	3A1	0.13		0.21		0.505		0.131		0.13	†	0.22		0.11		0.21		0.188		0.075		0.065		0.795	††
L080	3A1	0.109		0.201		0.523		0.116										1.02	††	0.451	††	0.36	††	11.95	††
L084	3A1	0.108		0.21		0.538		0.105		0.108		0.218		0.112		0.195		0.169		0.074		0.06		2.03	
L100	3A1	119.1	††	220.6	††	566.5	††	122.8	††	0.115		0.235		0.118		0.2		0.183		0.090		0.069		2	
L120	3A1	140	††	320	††	740	††	130	††									0.2		0.05	†	0.05		2.6	††
L133	3A1	0.433	††	0.262	††	0.951	††	0.228	††	0.183	††	0.221		0.107		0.467	††	0.19		0.09		0.07		1.78	††
L135	3A1	0.15	†	0.17	††	0.56		0.12		0.12		0.18	†	0.69	††	0.2		0.158		0.082		0.061		1.815	†
L137	3A1	0.117		0.23		0.553		0.115										0.22	††	0.1		0.078	††	2.41	††
L139	3A1	0.144	†	0.219		0.637		0.12		0.105		0.202		0.116		0.243	††	0.182		0.065		0.052		1.73	††
L140	3A1	0.14	†	0.23		0.62		0.18	††	0.12		0.22		0.12		0.21		0.17		0.08		0.06		2	
L141	3A1	0.209	††	0.304	††	0.658		0.204	††	0.208	††	0.288	††	0.199	††	0.302	††	0.268	††	0.169	††	0.156	††	2.01	
L143	3A1									0.12		0.22		0.12		0.2		0.18		0.07		0.06		2.14	
L156	3A1	108	††	212	††	517	††	111	††	0.11		0.22		0.09	††	0.2									
L158	3A1																	0.16		0.072		0.057		2.06	

Lab. Code #	Method Codes	Soil sample identification and values for Soil pH, 1:5 soil-water (4A1) air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L002	4A1	6.7		5.2		8.3		6.77										6.67		6.58		5.52		9.44	††
L003	4A1	7.01		5.42		8.35		6.91																	
L004	4A1	7.13		5.56		8.39		7.06		6.42		5.31		5.76		6.28		6.67		6.62		5.66	†	9.12	
L005	4A1	6.9		5.9	††	8.5		7.6	††																
L006	4A1	7		5.46		8.29		7.04		6.11		5.12		5.29		6.06		6.44		6.4		5.34	†	9.1	
L007	4A1	6.8		5.3		8.3		7		5.8	††	5	††	5.1	†	5.9		6.22		6.16		5.2	††	8.79	†
L008	4A1	6.98		5.43		8.39		6.77		6.13		5.16		5.26		6.09		6.43		6.35		5.31	††	9.13	
L009	4A1	7		5.51		8.48		7.19		6.02		5.11		5.46		6.16		6.4		6.37		5.45		8.98	
L011	4A1	7.03		5.35		8.29		6.92		6.14		5.09		5.25		6.1		6.7		6.64		5.51		9.4	††
L012	4A1	6.4	††	5.4		7.9	††	6.8		5.89		5.34		5.42		5.76	††	6.11		6.31		5.46		8.39	††
L013	4A1	6.7		5.5		8.3		6.7		6		5.3		5.8		5.9		6.3		6.4		5.5		8.6	††
L014	4A1	6.78		4.77	††	8.48		7.24										6.39		6.44		5.52		8.9	
L015	4A1	6.95		5.55		8.3		7.2		6.24		5.25		5.5		6.14		6.41		6.49		5.5		9.02	
L017	4A1	6.81		5.45		8	†	6.99		5.67	††	4.85	††	4.94	†	5.79	††	6.06	††	6.17		5.26	††	8.75	††
L018	4A1	7.2		5.61		8.5		7.17		6.26		5.26		5.5		6.23		6.62		6.64		5.59		9.11	
L019	4A1	6.9		5.43		8.19		6.89		6.13		4.9	††	5.11	†	5.98									
L022	4A1	7.02		5.48		8.41		6.96		6.24		5.26		5.48		6.25		6.59		6.6		5.53		9.04	
L023	4A1	7.15		5.5		8.6		7.01		6.1		5.3		5.4		6.2		6.61		6.54		5.51		9.21	
L024	4A1	6.91		8.5	††	8.06	†	7.05		6		5.26		5.74		6.39		6.3		6.2		5.2	††	8.6	††
L026	4A1	7.05		5.48		8.45		7.02		6.24		5.21		5.45		6.21		6.6		6.55		5.48		9.16	
L027	4A1	6.9		5.6		8.1		6.9		6.2		5.3		5.4		6		6.6		6.6		5.5		9.2	
L028	4A1	6.8		5.4		8.4		7.1		6.1		5.2		5.4		6.1		6.5		6.6		5.6		9.1	
L029	4A1	6.64		5.43		6.53	††	7.92	††									6.09		5.83	††	4.73	††	8.27	††
L030	4A1	6.91		5.41		8.26		6.94		6.01		5.09		5.26		6.11		6.4		6.3		5.26	††	8.93	
L032	4A1	6.77		5.46		8.12		7.14		6.29		5.28		5.51		6.26		6.61		6.65		5.57		9.06	
L035	4A1	6.8		5.8	††	8	†	6.8		6.2		5.9	††	5.7		6.5	†	6.69		6.38		5.81	††	8.92	
L036	4A1	6.79		5.31		8.17		6.82		6.07		5.09		5.26		6.02		6.39		6.37		5.26	††	9.11	
L040	4A1	7.06		5.58		8.28		6.98		6.26		5.25		5.46		6.25		6.61		6.52		5.52		9.09	
L042	4A1	7.3		5.62		8.5		7.2		6.42		5.36		5.58		6.32		6.63		6.62		5.65		9.01	
L044	4A1	7.11		5.55		8.39		7.03		6.28		5.26		5.69		6.21		6.52		6.48		5.52		9.13	
L045	4A1									6.3		5.3		5.5		6.1									
L046	4A1	7.05		5.55		8.4		6.95		6.28		5.3		5.5		6.26		6.51		6.48		5.55		8.85	†
L055	4A1	7.14		5.54		8.45		7		6.24		5.24		5.66		6.24		6.54		6.49		5.51		9.01	
L056	4A1	7.08		5.47		8.46		7.04		6.24		5.18		5.37		6.18		6.57		6.55		5.48		9.14	
L063	4A1									6.59	††	5.52	††	5.71		6.56	††								
L080	4A1	7.28		5.63		8.34		7.4										6.65		6.6		5.53		9.08	
L084	4A1	6.93		5.56		8.41		7.21		6.26		5.24		5.42		6.15		6.54		6.52		5.48		8.99	
L100	4A1	7.44	†	5.61		8.42		7.39		6.34		5.3		5.55		6.2		6.66		6.65		5.54		9.12	
L120	4A1	7		5.3		8.4		6.7		6.2		5.2		5.4		6.1		6.4		6.4		5.4		9.1	
L133	4A1	6.3	††	5.1	††	8.2		6.5	††	6.4		5.5	††	4.6	††	6.5	†	6.1		6	††	5.2	††	8.1	††
L135	4A1	6.95		5.5		8.45		7.1		6.66	††	5.24		8.2	††	6.86	††	6.34		6.21		5.22	††	9.14	
L137	4A1	7.05		5.43		8.42		7.08										6.4		6.49		5.48		9.05	
L139	4A1	6.71		5.34		8.32		6.81		5.59	††	4.79	††	4.88	††	5.7	††	6.31		6.24		5.59		8.82	†
L140	4A1	6.9		5.4		8.3		7.2		6.1		5.1		5.7		6		6.6		6.5		5.5		9	
L141	4A1	6.62		5.11	††	8.21		6.59	†	6.1		5.19		5.38		6.08		6.67		6.55		5.6		9.11	
L143	4A1									6.2		5.26		5.63		6.24		6.67		6.66		5.51		9.08	
L156	4A1	6.85		5.66		8.31		7.02		6.31		5.43		5.44		6.13		6.47		6.54		5.69	†	9.05	

Lab. Code #	Method Codes	Soil sample identification and values for Soil pH, 1:5 soil-water (4B1) air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L003	4B1	6.34		4.91		7.75		6.38																	
L006	4B1	6.35		4.87		7.8		6.55		5.45		4.74		4.96		5.63		5.95		5.75		4.62		8.3	
L008	4B1	6.29		4.86		7.55		6.27		5.13	††	4.66		4.86		5.57		5.83		5.65		4.56		8.19	
L009	4B1	6.25		4.83		7.75		6.4		5.42		4.7		4.92		5.61		5.92		5.7		4.62		8.15	
L014	4B1	6.09		4.32	††	7.46		6.34										6.2		5.88		4.83		8.22	
L019	4B1									5.73		4.81		4.98		5.65									
L028	4B1	6.4		4.9		7.9		6.7		5.5		4.7		5		5.6		6		5.8		4.7		8.3	
L029	4B1	6.13		4.92		6.21	††	7.53	††																
L041	4B1	6.32		4.89		7.48		6.28		5.23		4.6		4.86		5.49		5.94		5.65		4.58		7.95	††
L042	4B1	5.85	††	4.68	††	7.35		6.27		5.71		4.85		5.05		5.65		5.93		5.84		4.73		8.14	
L044	4B1	6.41		5.02		7.75		6.59		5.52		4.81		5.07		5.61		5.83		6.08		4.77		8.3	
L055	4B1	6.34		4.91		7.83		6.51		5.48		4.76		5.04		5.65		6.01		5.82		4.7		8.14	
L064	4B1	6.21		4.76		7.62		6.35		5.28		4.56		4.68	††	5.5		5.9		5.6		4.55		8.12	
L091	4B1	6.01		5		7.19	†	6.34										6.081		6.352	††	4.751		8.161	
L100	4B1	6.8	††	4.95		7.6		6.77		5.55		4.79		4.97		5.66		6.13		5.92		4.69		8.22	
L120	4B1																	5.8		5.5		4.4		8.2	
	4B1	6.42		4.95		7.75		6.6																	
L137	4B1	6.62		5.09	††	7.65		6.63										6.3		5.85		4.8		8.02	
L141	4B1	6.54		4.95		7.93		6.5		5.45		4.74		5		5.64		6.1		5.92		4.86		8.25	
L158	4B1																	6.02		5.81		4.72		8.22	

Lab. Code #	Method Codes	Soil sample identification and values for Soil pH, 1:5 soil-0.01 M $CaCl_2$ - indirect (4B2) air dry																					
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L004	4B2	6.43		4.90		7.73		6.46		5.73	†	4.80		5.12		5.79		6.27	††	6.01	††	4.90	†	8.55	
L005	4B2	6.1		5		6.8	††	6.5																	
L011	4B2	6.46		4.94		7.71		6.52		5.76	†	4.84		5.07		5.76		6.05		5.81		4.7		8.65	
L014	4B2	5.97	††	4.4	††	7.6		6.5										6.25	††	5.83		4.73		8.22	
L018	4B2	6.41		4.96		7.86		6.47		5.5		4.75		4.97		5.63		5.98		5.8		4.7		8.4	
L019	4B2	6.76	††	5.21	††	7.65		6.5																	
L022	4B2	6.32		4.9		7.83		6.37		5.45		4.78		5.06		5.62		5.91		5.75		4.7		8.29	
L023	4B2	6.35		4.91		7.94		6.43		5.5		4.8		4.9		5.7		5.93		5.75		4.59		8.39	
L026	4B2	6.39		4.94		7.92		6.44		5.49		4.78		5.04		5.66		6.02		5.82		4.69		8.57	
L027	4B2			4.8		7.6		6.6		5.5		4.7		4.9		5.6		5.6	††	5.7		4.8		7.5	††
L030	4B2	6.4		5		7.85		6.46		5.55		4.85		5.1		5.7		6.04		5.81		4.76		8.52	
L032	4B2	6.13		4.87		7.54		6.61		5.48		4.75		4.99		5.65		5.99		5.82		4.71		8.43	
L036	4B2	6.29		4.88		7.71		6.34		5.44		4.74		4.95		5.58		5.91		5.69	†	4.63		8.55	
L040	4B2	6.31		4.87		7.9		6.33		5.54		4.78		4.98		5.7		6.01		5.8		4.64		8.5	
L045	4B2									5.6		4.8		5		5.6									
L046	4B2	6.42		4.97		7.88		6.37		5.53		4.81		5.04		5.7		5.95		5.8		4.74		8.36	
L055	4B2	6.34		4.91		7.87		6.54		5.45		4.74		5.07		5.64		6.01		5.82		4.7		8.22	
L056	4B2	6.38		4.9		7.89		6.46		5.54		4.76		4.93		5.64		6.04		5.81		4.75		8.52	
L063	4B2									6.08	††	5.13	††	5.29	††	6.11	††								
L084	4B2	6.21		4.98		7.84		6.63		5.64		4.77		4.98		5.66		6		5.83		4.69		8.4	
L120	4B2																	5.8	†	5.6	††	4.5	†	8.3	
L133	4B2	6.1		5.4	††	6.9	††	6.2	††	5.7		5.2	††	4.9		6.3	††	6.5	††	6.6	††	6.3	††	6.8	††
L135	4B2									6.22	††	4.77		7.59	††	6.39	††	5.92		5.69	†	4.61		8.25	
L140	4B2	6.2		4.6	††	7.6		6.4		5.3		4.6	††	4.8		5.4	††	6		5.7		4.7		8.4	
L143	4B2									5.44		4.77		5.07		5.64		6.1		5.72		4.78		8.33	

Lab. Code #	Method Codes	Soil sample identification and values for Water soluble Cl - potentiometric (5A1) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L004	5A1	11		74		74		11		28	††	32		78		35		32		18		18		3180	
L008	5A1	36	†	74		56		3.6		11		17		70		16		33		14		14		2497	
L009	5A1	64.5	††	126	††	97.3		63.9	††	96.8	††	241	††	156		52.7		61.3		46.7		27.6		2705	
L011	5A1																	59		20		16		2926	
L013	5A1	6		72		64		6		5		11		80		11		23		6		8		2660	
L018	5A1	7.3		75		96		4.1										0.005		0.005		0.005		0.27	††
L023	5A1	1.95		75.5		64.8				8.4		19		93		20		34		14		12		2760	
L030	5A1	1.96		74.4		59.4		0.1																	
L035	5A1	93.6	††	734	††	73.9		12.3		10		45		85		55		55.6		30.1		43.2	††	2619	
L044	5A1																	30		14		10		2860	
L055	5A1	9.1		79.1		71		9.8		10.6		16.5		117		9.7		26		8.8		8		2670	
L064	5A1	14.1		108	†	123		17		16.9	†	31.2		116		37.9		38.8		22.9		16.5		1666	††
L080	5A1	31.5		110	†	137	††	28	††									15.5		5.5		3.77		3275	
L133	5A1	12		87		69		5.1		9.3		20.1		91.1		18.7		31.8		13.8		13.5		4067	††
L135	5A1	1.68		6.67	††	6.67	††	1.68		9.1		72.4		54.3		9.1		26.7		6.67		6.67		2629	
L137	5A1	49	†	25	††	33		0.89										53		36		27		2574	
L140	5A1	8		85		85		8		12		29		100		30		44		27		24		2900	
L143	5A1									11		30		119		27		51		31		24		4200	††

Lab. Code #	Method Codes	Soil sample identification and values for Water soluble Cl - autocolour (5A2) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L011	5A2	3.6		82		71		12		4.8		14		84		14									
L019	5A2	74	††	128	†	118	††	12		70	††	36	††	94		91	††								
L022	5A2	12.2		75.5		66.5		6.2		12.8		22.1		85.2		25		37		16		22		2575	
L026	5A2	5.2		82		62		1.4		11		19		86		20									
L027	5A2	10		90		70		10		20		20		100		20		5	††	5	††	5		2430	
L028	5A2	10		70		57		10		10		24		77		22		39		26	†	25		2700	
L030	5A2									10.1		18.7		72.6		18.9		33		17.3		13.3		2651	
L032	5A2	15		86		68		13		18		29	†	86		29		35		19		17		2670	
L036	5A2	4.01		72.6		63.7		1.66		12.0		20.9		84.9		22.2		29.1		15.5		13.6		2837	
L040	5A2	18		87		70.5		8.8		31	†	21.6		81.5		33.3		35.3		15.1		14		2680	
L045	5A2									14.05		8.15	††	27.41	††	16.22									
L084	5A2	33		103		95	†	28	††	36	††	70	††	124	††	49	†	80	††	44	††	33		2820	
L120	5A2	49	†	210	††	170	††	34	††									46		27	††	49	††	2800	
L139	5A2	30		69		75		16		27	†	20		76		30		36		17		24		3069	
L011	5A2	3.6		82		71		12		4.8		14		84		14									
L019	5A2	74	††	128	†	118	††	12		70	††	36	††	94		91	††								
L022	5A2	12.2		75.5		66.5		6.2		12.8		22.1		85.2		25		37		16		22		2575	

Lab. Code #	Method Codes	Soil sample identification and values for Organic Carbon - W&B (6A1) % air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L002	6A1	2.19	††	5.43		1.27		2.88	††									0.975		2.58		1.85		0.439	
L004	6A1	1.5		5.43		1.07		1.71		2.05	††	8.28	††	0.767		5.666	††	1.19		2.27		1.82		0.644	
L006	6A1	1.08		5.04		1.22		1.58		1.15		4.46		0.578		2.98		0.993		2.23		1.75		0.558	
L007	6A1	1.1		5.7		0.9		1.9	†	2.2	††	5.9	†	1.1	††	4.8	††	1.78	††	3.04	††	1.25		0.9	†
L009	6A1	1.55		5.89		1.25		1.88	†	1.38		5.37		0.66		3.76		1.11		2.63		1.97		0.615	
L011	6A1	1.13		4.71		0.95		1.47		1.43		4.77		0.714		3.53		0.955		2.06		1.7		0.595	
L012	6A1									1.37		5.21		0.837		4.39	†	1.21		2.64		2.09		0.703	
L013	6A1	1.7	†	7	††	1.7	††	1.9	†	1.2		4.6		0.8		3.3		0.9		2		1.7		0.5	
L014	6A1	3.5	††	5.8		2.3	††	4.2	††									4.83	††	6.1	††	9.82	††	6.41	††
L018	6A1	1.28		5.06		1.21		1.49		1.25		4.42		0.674		3.27		1.04		2.28		1.88		0.57	
L022	6A1	1.37		5.37		1.19		1.56		1.25		5.38		0.66		3.32		1.12		2.39		2.04		0.6	
L023	6A1	1.3		5.3		1.2		1.6		0.92	††	4.8		0.36	††	3.1		1.3		2.5		2.4		0.91	†
L024	6A1	2	††	12.5	††	1.51		2	††	2.53	††	4.78		1.5	††	4.09		1.19		1.57	††	2.16		0.97	††
L026	6A1	1.28		5.32		1.09		1.54		1.24		4.79		0.645		3.31		0.988		2.27		1.74		0.542	
L027	6A1																	1.13		2.23		2.11		0.77	
L028	6A1	1.37		5.3		1.14		1.53		1.37		4.62		0.73		3.17		1.13		2.23		2.11		0.77	
L029	6A1	1.4		5.61		1.83	††	1.1	††									0.378	††	2.3		1.6		0.251	††
L030	6A1	1.6		5.73		1.31		1.8	†	1.6		5.01		0.795		3.89		1.38		2.88	††	2.39		0.695	
L035	6A1																	1.03		2.39		1.94		0.645	
L064	6A1	1.39		6.22		1.05		1.52		1.35		5.63		0.65		3.69		1.28		2.8	††	2.25		0.64	
L080	6A1	1.14		6		1.06		1.66										0.887		2.22		1.57		0.702	
L084	6A1	1.32		5.18		1.1		1.53		1.27		4.64		0.69		3.25		1.06		2.29		1.86		0.64	
L135	6A1	1.39		5.24		1.25		1.53		1.10		4.1		0.595		2.75		1.06		2.51		2.00		0.622	
L137	6A1	1.3		5.29		1.11		1.53										1.4		2.4		2.49		0.742	
L143	6A1									1.25		4.57		0.74		3.14		1.08		2.31		1.85		0.66	
L158	6A1																	1.02		2.16		1.68		0.56	

Lab. Code #	Method Codes	Soil sample identification and values for Organic Carbon - Other (Pooled) % air dry																							
		November 2007 (Round 207)								February 2008 (Round 407)								May 2008 (Round 607)							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L002	6A1	2.19	††	5.43		1.27		2.88	††									0.975		2.58		1.85		0.439	
L004	6A1	1.5		5.43		1.07		1.71		2.05	††	8.28	††	0.767		5.67	††	1.19		2.27		1.82		0.644	
L006	6A1	1.08		5.04		1.22		1.58		1.15		4.46		0.578		2.98		0.993		2.23		1.75		0.558	
L007	6A1	1.1		5.7		0.9		1.9	†	2.2	††	5.9		1.1	††	4.8	††	1.78	††	3.04	††	1.25		0.9	†
L009	6A1	1.55		5.89		1.25		1.88	†	1.38		5.37		0.66		3.76		1.11		2.63		1.97		0.615	
L011	6A1	1.13		4.71		0.95		1.47		1.43		4.77		0.714		3.53		0.955		2.06		1.7		0.595	
L012	6A1									1.37		5.21		0.837		4.39	††	1.21		2.64		2.09		0.703	
L013	6A1	1.7		7	††	1.7	††	1.9	†	1.2		4.6		0.8		3.3		0.9		2		1.7		0.5	
L014	6A1	3.5	††	5.8		2.3	††	4.2	††									4.83	††	6.1	††	9.82	††	6.41	††
L014	Other	1.9	†	6.3		1.5		2.1	††									1.41		2.88	†	2.59		0.87	
L018	6A1	1.28		5.06		1.21		1.49		1.25		4.42		0.674		3.27		1.04		2.28		1.88		0.57	
L019	Other	0.635	††	0.458	††	0.588	††	0.69	††																
L022	6A1	1.37		5.37		1.19		1.56		1.25		5.38		0.66		3.32		1.12		2.39		2.04		0.6	
L023	6A1	1.3		5.3		1.2		1.6		0.92	††	4.8		0.36	††	3.1		1.3		2.5		2.4		0.91	†
L024	6A1	2	†	12.51	††	1.51		2	†	2.53	††	4.78		1.5	††	4.09		1.19		1.57	††	2.16		0.971	††
L026	6A1	1.28		5.32		1.09		1.54		1.24		4.79		0.645		3.31		0.988		2.27		1.74		0.542	
L027	6A1																	1.13		2.23		2.11		0.77	
L028	6A1	1.37		5.3		1.14		1.53		1.37		4.62		0.73		3.17		1.13		2.23		2.11		0.77	
L029	6A1	1.4		5.61		1.83	††	1.1	††									0.378	††	2.3		1.6		0.251	††
L030	6A1	1.6		5.73		1.31		1.8		1.6		5.01		0.795		3.89		1.38		2.88	†	2.39		0.695	
L035	6A1																	1.03		2.39		1.94		0.645	
L056	Other																	1.14		2.57		1.96		0.619	
L064	6A1	1.39		6.22		1.05		1.52		1.35		5.63		0.65		3.69		1.28		2.8		2.25		0.64	
L080	6A1	1.14		6		1.06		1.66										0.887		2.22		1.57		0.702	
L084	6A1	1.32		5.18		1.1		1.53		1.27		4.64		0.69		3.25		1.06		2.29		1.86		0.64	
L100	Other									1.4		4.39		0.927		3.35		1.17		2.41		1.93		0.677	
L135	6A1	1.40		5.24		1.25		1.53		1.10		4.1		0.595		2.75		1.06		2.51		2.00		0.622	
L137	6A1	1.3		5.29		1.11		1.53										1.4		2.4		2.49		0.742	
L143	6A1									1.25		4.57		0.74		3.14		1.08		2.31		1.85		0.66	
L158	6A1																	1.02		2.16		1.68		0.56	

Lab. Code #	Method Codes	Soil sample identification and values for Total Organic C – Heanes wet oxidation (6B1) % air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L006	6B1									2.8	††	6.53		1.53		6.84	††	2.81	††	5.21	††	5.02	††	1.59	
L015	6B1	1.45		5.34		1.32		1.72		1.4		4.97		0.792		3.54		1.22		2.58		2.19		0.687	
L022	6B1	1.49		6.34		1.29		1.68		1.39		5.51		0.79		3.51		1.24		2.52		2.3		0.66	
L023	6B1	1.62		5.98		1.44		1.8		1.7	†	5.2		1.4		4.3									
L029	6B1																	1.14		2.23		1.98		0.64	
L035	6B1	0.92	††	4.58	††	0.63	††	1.95		1.38		4.66		0.68		3.16									
L045	6B1									1.58	†	5.25		0.95		4.06									
L084	6B1	1.82		6.08		1.66	†	1.96		1.4		4.74		0.83		3.4									
L140	6B1	1.6		6.1		1.3		1.7		4	††	10	††	2.2	††	7.8	††	1.2		2.7		3.3		1.2	
L157	6B1																	1.66	††	2.82		2.5		1.05	

Lab. Code #	Method Codes	Soil sample identification and values for Total Organic C - HF Induction, IR (6B3) % air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 11 1		ASS 11 2		ASS 11 3		ASS 11 4		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L007	6B3																	1.37		1.83	††	1.73	††	3.25	††
L008	6B3									1.6	†	5.6		0.832		4		1.35		2.81		2.45		1.11	
L009	6B3	1.2	††	6.14		1.36		1.38	††	1.11	††	5.22		0.474	††	3.76		1.09	††	2.54		2.22		0.788	
L015	6B3	1.42		6.48		1.52		1.73		1.4		5.47		0.818		3.22	††	1.29		2.62		2.5		1.06	
L027	6B3			5.92		1.19				1.21	††	4.54	††	0.59	††	3.24	††	1.18		2.04	††	1.91	††	0.46	††
L030	6B3	1.59		6.5		1.81		1.83		1.42		5.5		0.827		3.87		1.32		2.85		2.52		1.12	
L032	6B3	1.57		6.41		1.34		1.86		1.46		5.43		0.815		3.82		1.35		2.73		2.36		0.652	
L040	6B3	1.52		6.38		1.35		1.75										1.32		2.81		2.46		0.951	
L042	6B3	1.58		6.64		1.68		1.8		1.43		5.66		0.79		3.84		1.24		2.68		2.37		0.81	
L046	6B3	2.59	††	1.05	††	2.67	††	5.93	††									1.31		2.65		2.41		1.12	
L156	6B3									1.4		5.41		0.8		3.69		1.28		2.76		2.31		1.04	
L158	6B3																	1.31		2.8		2.5		1	

Lab. Code #	Method Codes	Soil sample identification and values for Total Organic C - Dumas (6B2 + 6B3) % air dry																					
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*					
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L007	6B3																	1.37		1.83	††	1.73	††	3.25	††
L008	6B3									1.6		5.6		0.832		4		1.35		2.81		2.45		1.11	
L009	6B3	1.2	††	6.14		1.36		1.38	††	1.11		5.22		0.474	††	3.76		1.09	††	2.54		2.22		0.788	
L015	6B3	1.42		6.48		1.52		1.73		1.4		5.47		0.818		3.22	††	1.29		2.62		2.5		1.06	
L019	6B2	1.63		6.36		1.85		1.84		1.28		5.28		0.75		3.59									
L027	6B3			5.92	†	1.19				1.21		4.54	††	0.59	††	3.24	††	1.18		2.04	††	1.91	††	0.46	††
L030	6B3	1.59		6.5		1.81		1.83		1.42		5.5		0.827		3.87		1.32		2.85		2.52		1.12	
L032	6B3	1.57		6.41		1.34		1.86		1.46		5.43		0.815		3.82		1.35		2.73		2.36		0.652	†
L036	6B2	1.44		6.45		1.42		1.94		1.46		5.57		0.799		3.8		1.37		2.79		2.58		1.23	
L040	6B2									1.4		5.47		0.837		3.9									
L040	6B3	1.52		6.38		1.35		1.75										1.32		2.81		2.46		0.951	
L042	6B3	1.58		6.64		1.68		1.8		1.43		5.66		0.79		3.84		1.24		2.68		2.37		0.81	
L046	6B3	2.59	††	1.05	††	2.67	††	5.93	††									1.31		2.65		2.41		1.12	
L156	6B3									1.4		5.41		0.8		3.69		1.28		2.76		2.31		1.04	
L158	6B3																	1.31		2.8		2.5		1	

Lab. Code #	Method Codes	Soil sample identification and values for Total Organic C - Heanes/HF Induction, Vol/HF Induction, IR/Other (Pooled) % air dry																					
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*					
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L006	6B1									2.8	††	6.53	††	1.53	††	6.84	††	2.81	††	5.21	††	5.02	††	1.59	
L007	6B3																	1.37		1.83	††	1.73	††	3.25	††
L008	Other	2.39	††	6.61		2.71	††	2.41	††																
L008	6B3									1.6	†	5.6		0.832		4		1.35		2.81		2.45		1.11	
L009	6B3	1.2		6.14		1.36		1.38	††	1.11	††	5.22		0.474	††	3.76		1.09		2.54		2.22		0.788	
L015	6B1	1.45		5.34	†	1.32		1.72		1.4		4.97		0.792		3.54		1.22		2.58		2.19		0.687	
L015	6B3	1.42		6.48		1.52		1.73		1.4		5.47		0.818		3.22		1.29		2.62		2.5		1.06	
L019	6B2	1.63		6.36		1.85		1.84		1.28		5.28		0.75		3.59									
L022	6B1	1.49		6.34		1.29		1.68		1.39		5.51		0.79		3.51		1.24		2.52		2.3		0.66	
L023	6B1	1.62		5.98		1.44		1.8		1.7	††	65.2		1.4	††	4.3									
L027	6B3			5.92		1.19				1.21	†	4.54	††	0.59	††	3.24		1.18		2.04	††	1.91	††	0.46	
L028	Other	1.4		6.5		1.2		1.8		1.36		5.42		0.81		3		1.2		2.41		2.28		0.66	
L029	6B1																	1.14		2.23	††	1.98	†	0.64	
L030	6B3	1.59		6.5		1.81		1.83		1.42		5.5		0.827		3.87		1.32		2.85		2.52		1.12	
L032	6B3	1.57		6.41		1.34		1.86		1.46		5.43		0.815		3.82		1.35		2.73		2.36		0.652	
L035	6B1	0.92	††	4.58	††	0.63	†	1.95		1.38		4.66	††	0.68	††	3.16									
L036	6B2	1.44		6.45		1.42		1.94		1.46		5.57		0.799		3.8		1.37		2.79		2.58		1.23	
L040	6B2									1.4		5.47		0.837		3.9									
L040	6B3	1.52		6.38		1.35		1.75										1.32		2.81		2.46		0.951	
L042	6B3	1.58		6.64		1.68		1.8		1.43		5.66		0.79		3.84		1.24		2.68		2.37		0.81	
L045	6B1									1.58	†	5.25		0.95	††	4.06									
L046	6B3	2.59	††	1.05	††	2.67	††	5.93	††									1.31		2.65		2.41		1.12	
L056	Other	1.35		5.2	††	1.17		1.54		1.23	†	4.56	††	0.702	††	3.31									
L084	6B1	1.82		6.08		1.66		1.96		1.4		4.74	†	0.83		3.4									
L097	Other	1.4		6.82		1.69		1.73		1.49		5.5		0.888		3.66		1.34		2.71		2.48		1.12	
L140	6B1	1.6		6.1		1.3		1.7		4	††	10	††	2.2	††	7.8	††	1.2		2.7		3.3	††	1.2	
L156	6B3									1.4		5.41		0.8		3.69		1.28		2.76		2.31		1.04	
L156	Other	1.54		6.53		1.74		1.79																	
L157	6B1																	1.66	††	2.82		2.5		1.05	
L158	6B3																	1.31		2.8		2.5		1	

Lab. Code #	Method Codes	Soil sample identification and values for Total N - Kjeldahl, steam distillation (7A1) % air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L002	7A1	0.14		0.399		0.112		0.238										0.126		0.259		0.126		0.084	
L005	7A1	0.1		0.43	†	0.1		0.12																	
L006	7A1	0.107		0.403		0.094		0.15		0.104		0.491	†	0.057		0.265		0.084		0.208		0.087		0.048	
L007	7A1	0.22	††	0.72	††	0.19		0.25		0.16		0.16	††	0.11	†	0.37	†	0.32	††	0.75	††	0.33	††	0.11	††
L012	7A1									0.12		0.52		0.07		0.3		0.099		0.225		0.099		0.053	
L014	7A1	0.1		0.14	††	0.08		0.12										0.063		0.196		0.084		0.035	
L024	7A1	0.111		0.407		0.0723		0.145		0.105		0.326	††	0.632	††	0.262		0.11		0.23		0.11		0.06	
L029	7A1	0.107		0.392		0.16		0.097										0.402	††	0.498	††	0.329	††	0.022	
L044	7A1	1320	††	4360	††	1110	††	1570	††	0.117		0.526		0.071		0.292		0.102		0.236		0.11		0.065	
L064	7A1	1281	††	4390	††	874	††	1440	††	0.101		0.522		0.066		0.307		0.096		0.214		0.097		0.068	
L133	7A1	0.0098	††	0.0014	††	0.0099		0.0178		0.0026	††	0.0039	††	0.0073	††	0.0061	††	0.045	†	0.094	††	0.051		0.02	
L137	7A1	0.102		0.4		0.07		0.151										0.098		0.221		0.105		0.057	
L140	7A1	0.122		0.432	†	0.098		0.154		0.133		0.545		0.07		0.305		0.095		0.23		0.1		0.05	

Lab. Code #	Method Codes	Soil sample identification and values for Total N - Kjeldahl, autocolour (7A2) % air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L018	7A2	0.12		0.405		0.101		0.157		0.116		0.503		0.069		0.303		0.092		0.222		0.096		0.05	
L023	7A2																	0.096		0.23		0.1		0.05	
L026	7A2	0.117		0.415	††	0.077		0.152		0.123		0.605		0.065		0.317		0.101		0.243		0.111		0.049	
L027	7A2	0.124		0.405		0.103		0.172		0.101		0.458		0.055		0.248		0.094		0.221		0.082		0.06	
L036	7A2	0.114		0.405		0.09		0.152		0.111		0.573		0.06		0.299									
L055	7A2	0.121		0.406		0.095		0.158		0.11		0.475		0.063		0.268		0.087		0.2		0.095		0.05	
L084	7A2	0.124		0.414	††	0.099		0.140		0.112		0.491		0.062		0.286		0.084		0.203		0.084		0.042	
L120	7A2	0.08	††	0.275	††	0.064		0.126		0.1		0.27	††	0.03	††	0.23		0.166	††	0.278		0.138		0.063	
L157	7A2																	0.13		0.14		0.11		0.07	

Lab. Code #	Method Codes	Soil sample identification and values for Total N (Dumas) % air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L008	Dumas	0.078		0.396		0.051		0.124		0.931	††	0.505		0.053		0.265		0.088		0.212		0.089		0.037	
L009	Dumas	0.088		0.408		0.071		0.143		0.117		0.556		0.081		0.321		0.131		0.246		0.116		0.068	
L011	Dumas	0.172		0.485		0.153	†	0.195		0.111		0.547		0.068		0.295		0.107		0.234		0.107		0.059	
L013	Dumas	0.14		0.49		0.11		0.18		0.12		0.61		0.07		0.31		0.07		0.17		0.08		0.03	
L015	Dumas	0.098		0.449		0.077		0.132		0.109		0.563		0.067		0.252		0.082		0.204		0.099		0.048	
L019	Dumas	0.145		0.45		0.115		0.17		0.12		0.56		0.07		0.3									
L022	Dumas	0.121		0.432		0.102		0.147		0.109		0.53		0.075		0.289		0.11		0.211		0.11		0.052	
L023	Dumas	0.13		0.49		0.1		0.18		0.14		0.61		0.095		0.3		0.11		0.24		0.13		0.08	
L028	Dumas	0.09		0.41		0.07		0.11		0.11		0.54		0.04		0.25		0.08		0.19		0.09		0.03	
L030	Dumas	0.09		0.379		0.068		0.117		0.071	††	0.511		0.043		0.257		0.067		0.192		0.063		0.03	
L032	Dumas	0.123		0.441		0.099		0.163		0.109		0.54		0.057		0.298		0.098		0.228		0.099		0.054	
L036	Dumas	0.113		0.454		0.085		0.159		0.12		0.53		0.067		0.279		0.1		0.238		0.11		0.061	
L040	Dumas	0.118		0.421		0.096		0.149		1.06	††	0.531		0.058		0.291		0.077		0.19		0.067		0.046	
L042	Dumas	0.12		0.43		0.09		0.14		0.11		0.54		0.05		0.28		0.09		0.21		0.09		0.05	
L045	Dumas									0.144		0.601		0.104		0.337									
L046	Dumas	0.252	††	0.10	††	0.191	††	0.308	††									0.082		0.197		0.074		0.030	
L097	Dumas	0.113		0.458		0.082		0.151		0.141		0.574		0.082		0.312		0.115		0.25		0.126		0.064	
L100	Dumas									0.117		0.506		0.084		0.287		0.106		0.219		0.117		0.059	
L156	Dumas	0.13		0.451		0.102		0.164		0.11		0.54		0.06		0.3		0.084		0.219		0.084		0.04	
L158	Dumas																	0.1		0.246		0.106		0.06	

Lab. Code #	Method Codes	Soil sample identification and values for Water Soluble Nitrate N - autocolour (7B1) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L004	7B1	9.4	†	8.7	††	30	††	20	††	17	††	29	†	10	†	26	†	22	††	4.1	††	0.169	††	0.371	
L008	7B1	14		16		49		37		34		57		20		55		63	†	0.028		10		0.31	
L011	7B1	14		17		47		38		27	†	43		18		44		50		1.6	†	9.3		2.3	††
L019	7B1	14		16.6		50		37																	
L026	7B1	16.5		19		61		42		37		66		23		66		49		0.17		8.3		0.51	
L027	7B1	0.1	††	17.2		51.1		38.9		32.8		54.5		21.2		56.8		52.8		0.05		9		0.6	
L028	7B1	17		20	††	56		41		33		53		20		57		44		0.5		7		0.5	
L040	7B1	16		17.5		57.5		40.8		34		57.1		22.9		59.2		50.5		0.298		9.31		0.488	
L045	7B1									12.9	††	21.2	††	8.1	††	22.2	††								
L055	7B1	14		17		54		39		31		49		18		51		48		0.25		8.3		0.6	
L064	7B1	16		15.9		57.9		33.3		26.7	†	51.3		20.6		47.2		47.4		2.88	††	11.7		1.43	†
L080	7B1	14.74		16.1		51.4		37.6																	
L133	7B1	0.05	††	0.01	††	0.07	††	36.1		0.725	††	0.085	††	7.2	††	0.02	††	1.34	††	1.22		1.44	††	8.8	††
L135	7B1	12.9		14.6		43.2		40.8		34.2		50.4		24.3		53.4									
L139	7B1	15		14		48		48	††	34		38		18		45		44		0.5		7		0.263	
L140	7B1	15		17		52		40		32		53		54	††	54		50				9		5	††

Lab. Code #	Method Codes	Soil sample identification and values for KCL Extractable Nitrate N - autocolour (7C2) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L011	7C2	14		17		43		38		30		11	††	24		32	††	79	††	1.3	††	8.4		2.1	††
L013	7C2	16.5		20		55.1		41.6		30.7		50.7		21.7		49.7		51		0.1		9.3		0.5	
L015	7C2	1.43	††	1.6	††	4.92	††	3.64	††	29.7		49.4		20.6		47.9		46.1		0.294		8.07		0.461	
L018	7C2	12		40	††	16	††	22	††	31		50		21		51		48.4		0.3		9		1.1	†
L019	7C2									24.8		40.1	††	17.1		41.8									
L022	7C2	14.9		16.6		51.4		38		30.5		51		21.3		50.6		50.6		0.5		8.9		0.7	
L023	7C2	14.1		17.4		50.8		38.3		31		52		20		53		49				8.3		0.36	
L028	7C2	14		14		51		38		29		49		20		48		42		1	†	7	††	2	††
L030	7C2	14.6		17.3		50.1		38.3		33.3		53.3		22.5		52.6		44.3		3.72	††	8.28		0.5	
L032	7C2	16		18		54		41		35		57		23		55		53		0.1		9.6		0.6	
L036	7C2	14.2		16		47.6		36.3		29.2		48.7		19.9		48.8		48.3		0.013		8.78		0.325	
L042	7C2	15.6		17.7		55.2		40.5		8.8	††	46.9		18.3		28.3	††	48		0.27		8.9		0.81	
L044	7C2	13.4		17.1		52.2		39.9		28		49		18		48		43		1.4	††	8.6		1.4	††
L046	7C2	15.4		18.6		59.4		40		32.4		57.3		22.7		56.1		44.8		0.213		8.25		0.604	
L055	7C2	14		17		51		37		29		50		19		50		47		0.25		8.2		0.65	
L080	7C2																	51		1.39	††	7.86		1.61	††
L084	7C2	12.2		14.8		46.2		27	††	30.5		54		23.8		51.8		42.9		0.1		8.8		0.6	
L097	7C2	13		16		45		37		33		55		23		57		48		0.215		8.8		0.631	
L120	7C2	19	††	47	††	38		16	††									50		0.05		8.2		0.55	
L137	7C2																	52		1.4	††	11	††	1.4	††

Lab. Code #	Method Codes	Soil sample identification and values for KCL Extractable Ammonium N - autocolour (7C2) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L011	7C2	16		49		22		29	†	5.1	†	39		17		23		19	††	33		7.3		5	
L013	7C2	13.4		44.2		19.3		24.9		9.2		44.6		19		26.6		17		35.3		10.9	††	4.7	
L015	7C2	1.33	††	4.27	††	1.91	††	2.49	††	7.81		45.8		18.1		28		13.2		30.6		6.59		3.53	
L018	7C2	14		16	††	48	††	37	††	8.1		44		16		27		13.5		29.4		7.6		4.4	
L019	7C2	2.14	††	9.63	††	6.15	††	6.72	††	3.9	††	19.7	††	6.2	††	8.4	††								
L022	7C2	11.5		41.1		17		24		7.6		42.1		16.4		25.5		12.9		30.2		6.9		4.5	
L023	7C2	11.3		40.1		17.1		22.9		7.3		44		16		24		11		24	†	6.2	†	3.8	
L026	7C2	11		40		16		23		7.5		38.4		15		22.6		12		25		7.1		3.9	
L028	7C2	14		50		23		28		5	†	39		12	†	24		13		31		10	††	5	
L030	7C2	11.7		43		17.7		23.2		7.53		48		17.2		28.2		13		28.8		6.36		3.37	
L032	7C2	13		43		19		25		9.7		45		18		28		15		34		8.9	†	5	
L036	7C2	12.4		45.2		18.3		23.2		6.77		43.3		15.4		24.2		13.4		28.7		7.52		4.6	
L042	7C2	12.5		50		20.3		24.1		30.3	††	52.1		21.2	†	52.2	††	15		32		8		5.9	
L044	7C2	14.3		48.4		20		26		9.1		49		18		30		16		31		7.4		3.2	
L046	7C2	12.3		43.8		17.5		23.4		6.82		41.5		15.2		24		14.2		31.4		7.34		4.61	
L055	7C2	75	††	125	††	53	††	65	††	7.3		44		17		25		13		31		7.4		4.4	
L084	7C2	11.6		38.1		15.5		22		8.7		44.8		17.7		26.9		13.1		27		7.2		3.8	
L097	7C2	13		45		20		24		7.9		41		17.3		26		12		30		7.3		4.5	
L120	7C2	37	††	80	††	40	††	28		7.6		32	†	13		20		15		42	††	12	††	7.9	††
L133	7C2	0.26	††	12.5	††	3.25	††	5.09	††	16	††	53		1.5	††	23		2.58	††	3.05	††	2.6	††	5.37	
L135	7C2	9.3		14.1	††	11.7		18.9	†																
L137	7C2																	13		24	†	9.8	†	2.8	
L140	7C2	13		49		21		26		7		47		14		24		18	†	32		8		3	

Lab. Code #	Method Codes	Soil sample identification and values for Total P - all methods (other) % air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*										*May 2008 (Round 607)*					
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L006	Other									0.028		0.139		0.011		0.035	††	0.069		0.067		0.059	††	0.061	††
L009	Other	0.035		0.243		0.079		0.038		0.033		0.173		0.021		0.050		0.079		0.058		0.016		0.016	
L011	Other	0.037		0.263		0.091		0.038		0.034		0.187		0.028		0.056		0.084		0.059		0.016		0.016	
L013	Other	0.044		0.17		0.101		0.038		0.032		0.16		0.021		0.056		0.099		0.064		0.018			
L018	Other	0.044		0.255		0.1		0.042		0.03		0.208		0.027		0.06		0.082		0.062		0.016		0.017	
L019	Other									0.032		0.161		0.031		0.056									
L022	Other	0.049		0.265		0.111		0.04		0.032		0.173		0.031		0.057		0.08		0.057		0.017		0.016	
L023	Other									0.024	†	0.12		0.016		0.046		0.079		0.058		0.017		0.018	
L026	Other									0.032		0.2		0.029		0.060		0.088		0.062		0.017		0.018	
L027	Other	0.049		0.266		0.11		0.041		0.034		0.186		0.027		0.056		0.091		0.061		0.015		0.021	
L028	Other																	0.099				0.025	††	0.028	††
L030	Other	0.045		0.208		0.102		0.033		0.028		0.149		0.023		0.049		0.083		0.062		0.017		0.018	
L032	Other									0.032		0.182		0.025		0.060									
L036	Other	0.042		0.248		0.085		0.038		0.019	††	0.131		0.008	†	0.037	††	0.061		0.034	††	0.014		0.01	†
L040	Other	0.0431		0.235		0.1		0.037		0.033		0.208		0.031		0.056		0.086		0.061		0.016		0.017	
L044	Other	0.038		0.188		0.094		0.029	†	0.031		0.152		0.026		0.06		0.111	††	0.058		0.016		0.015	
L046	Other	0.0394		0.219		0.094		0.0383										0.089		0.059		0.017		0.020	
L055	Other	0.034		0.17		0.1		0.037		0.034		0.18		0.023		0.06		0.076		0.053		0.012	†	0.014	
L064	Other	450	††	1635	††	1009	††	411	††	0.036		0.171		0.0074	†	0.049		0.073		0.056		0.021	†	0.022	
L084	Other	0.0454		0.4	††	0.111		0.033		0.031		0.188		0.0257		0.058		0.089		0.060		0.016		0.019	
L120	Other	0.046		0.27		0.15	††	0.042		0.06	††	0.209		0.04		0.08	††	0.088		0.062		0.052	††	0.039	††
L133	Other	0.001	††	0.002	††	0.0006	††	0.002	††	0.002	††	0.0007	††	0.0003	††	0.003	††	0.03	††	0.019	††	0.008	††	0.003	††
L137	Other	0.049		0.274		0.114		0.038										0.092		0.065		0.018		0.019	
L140	Other	0.051		0.32		0.14	†	0.046	†	0.033		0.18		0.029		0.049		0.076		0.046	††	0.017		0.038	††
L156	Other																	0.078		0.058		0.015		0.017	

Lab. Code #	Method Codes	Soil sample identification and values for Colwell Extractable P - manual (9B1) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L006	9B1	35.2		154		50.1		25.5		25.6		92.9		2.19		75.6		200		72.3		14.6		5.64	
L011	9B1	35		160		55		27		24		105		4.1		74		207		8.7	††	20		8.7	
L015	9B1	38.5		153		53		31.1		29.9		106		3.78		81.4		207		82.2		17.6		7.76	
L019	9B1									25		94		4.1		74									
L022	9B1									26.6		97		5.4		70.1		222		82		21.5		8.1	
L023	9B1	37.4		160		58.3		30		27		99		6.3		76		215		97		23		11	†
L024	9B1	37		90	††	54		26										1073	††	1273	††	420	††	86	††
L027	9B1	215	††	164		184	††	187	††	31		3	††	13	††	91		266	††	112	††	24		1	††
L044	9B1	33.2		131		46.7		27.2		26		89		7.4		73		182		75		28	†	12	††
L063	9B1	11.3	††	11.3	††	4.4	††	15.6	††																
L064	9B1	40.8		131		54.1		24.5		31.3		88.4		7.69		77.4		168		87.6		45.7	††	14.3	††
L080	9B1	41.5		122	†	55.4		35.8										187		75.6		20		7.8	
L084	9B1	37.7		151.8		54.2		30.2		28		103		4.8		81		204.5		82.5		18		8	
L100	9B1									29.4		91.1		4.66		79.35		204		86.6		22.2		9.34	
L133	9B1	80.3	††	257	††	103	††	86.8	††	159	††	419	††	110	††	222	††	246		142	††	48.3	††	11.3	†
L158	9B1																	183		73.2		18.3		7.8	

Lab. Code #	Method Codes	Soil sample identification and values for Colwell Extractable P - autocolour (9B2) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L004	9B2	35		143		50		30		26		72		9		59		202		81		31	††	8.6	
L018	9B2	34		147		51		28		24		84		4.4		71		198		79.1		18.3		7.4	
L019	9B2	31		176		45		24																	
L022	9B2	35.5		140		55.2		31.3																	
L026	9B2	31		150		49		28		26.5		92		5.4		71		227		88		19		8.3	
L028	9B2	43		156		56		35		32		107		5		84		158		92		21		7	
L030	9B2	34.6		156		51.1		29.6		27.5		99		6.01		74.9		191		77.9		18.3		7.38	
L032	9B2	35		172		64		31		27		124	†	5.6		75		201		80		19		8.4	
L036	9B2	35.8		144		53.1		32.1		21.8		81.5		5.28		60.7		204		82.4		18.7		6.54	
L040	9B2	39		155		55		34		30.8		88.7		11	††	67.1		215		92.1		20.7		7.2	
L046	9B2	41.7		160		58.2		27.4																	
L120	9B2	38		88	††	51		30		12	††	46	††	1.4		33	††	309	††	111	††	53	††	36	††

Lab. Code #	Method Codes	Soil sample identification and values for Olsen Extractable P - manual (9C1) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L002	9C1	20.9		57.6		27.1		19.3										97.7		46.2		11.6		4.19	
L005	9C1	208	††	1310	††	303	††	146	††																
L007	9C1	17		49		24		15		12		30		2		32		93.5		1690	††	1873	††	690	††
L009	9C1	18.6		68.7	†	26.4		18.6		21.2	††	49.7	††	2.14		47.5	††	102		44		13.5	†	5.57	
L012	9C1	54.5	††	122	††	317	††	50.5	††	12		31.6				34									
L014	9C1																	93		67	††	28	††	24	††
L022	9C1									10.7		28.6		1.4		27.8		80.5		34.2		8		2.3	
L024	9C1	18		78	††	18		19										93		38		9.9		2.6	
L027	9C1	20		45		23		20		10		29		1		26		89		37		9.6		3.8	
L044	9C1	18.7		39.2		23.8		18.6		9.2		23		1.1		24		67		29		8		3.5	
L045	9C1									9.1		21.9		1.4		25.7									
L135	9C1	16.0		22.1		7.5	††	21.8		11.6		25		3.05		31.5		57.0		25.3		8.25		4.91	
L137	9C1	18		45		24		18										108		43		13	†	6.8	

Lab. Code #	Method Codes	Soil sample identification and values for Olsen Extractable P - autocolour (9C2) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L013	9C2	10		32.2		16.7		9.7		11		23.5		4.8	††	22.3		68		28.5		10.6		6	
L022	9C2	13.8		43.2		22.1		13.1																	
L026	9C2	11.8		36		18		10.8		9.9		22		1.2		25		83		33		8.7		3.5	
L030	9C2	13.4		42.6		19.4		11.3		9.6		24.5		1.43		26.9		72.5		30.5		7.49		2.81	
L036	9C2	13.5		42.5		21.5		12.7		9.2		25.2		0.91		29.1		92.6		36.5		8.04		3.1	
L040	9C2	15		36.5		21		15		10.1		25.1		2.34		27.2		96.2		39.4		8.48		3.76	
L042	9C2	14.4		41.9		21.6		13.1		11		27		1.8		28		80		39		7.9		5	
L046	9C2	14.6		36.8		22.5		11.4										78.3		30.4		7.81		5.15	
L120	9C2	15		32		20		18		5	††	15		0.74		14	††	111		51		12		6.2	
L139	9C2	13		50		20		11		13		35		5.1	††	29		74		31		16	††	4.7	
L156	9C2	16		46		23		14		9.75		27		0.81		31		85		34		7.26		2.78	

Lab. Code #	Method Codes	Soil sample identification and values for Bray-1 Extractable P - manual (9E1) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L006	9E1	15.5		42.1		9.16		20.3		14.6		19.6		0.45		25.7		102		38.8		12.6		1.5	
L008	9E1	15		34		7.2		24		23		20		2.2	††	26		142		51		21		1.6	
L011	9E1	19		35		8.5		22										28		39		173	††	31	††
L014	9E1	14		20		4.3		2.4	††									74		36		18		1.2	
L019	9E1	13.6		21		3.36		14.4																	
L024	9E1	18		104	††	54	††	12										5.9		2	††	0.699	††	0.095	
L027	9E1	2	††	2		3		1	††	2	††	1		0.002		3		23		7	††	3	††	0.2	
L029	9E1	13		14		26	††	6	†									140		49		18		1.8	
L030	9E1																	142		49.7		18.7		1.88	
L056	9E1	14		15		5.2		21		18		5.8		0.28		19		138		51		19		1.2	
L064	9E1	14.1		14.8		4.25		22.5		17.9		5.19		0.53		20.7		87.1		41.6		19.3		0.97	

Lab. Code #	Method Codes	Soil sample identification and values for Bray-1 Extractable P - autocolour (9E2) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L019	9E2									15		6.5		0.51		24									
L023	9E2	12.9		16.7		3.7		20.6		19		4.3		0.15		23		150		59.7		21.2		1.35	
L026	9E2	10.7		22		2.8		15		16		8.9		0.1		18		135		41		15.6		1.1	
L045	9E2									11		1		1		2									
L046	9E2	16.8		28.7		6.93		19.4										73.9		40		17		0.61	
L055	9E2	11.4		11.5		3.01		22.2		18.2		3.3		0.83		11.1		137		49.8		18.3		1.39	
L120	9E2																	218		63		29	†	5.7	††
L156	9E2	32	††	112	††	171	††	35	†	23		20		0.21		33		182		63		22		2.77	†

Lab. Code #	Method Codes	Soil sample identification and values for Phosphorus buffer index - Colwell (9I2a, 9I2b, 9I2c) L/kg air dry																									
		November 2007 (Round 207)								*February 2008 (Round 407)*										*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54			
L006	9I2c	121		896		244		24.2		47		60.7	††	1025		1038	††	55.4		38.4		46		135			
L011	9I2a	104		840		211		26.1		42		823		904		153		57.3		50.4		44.6		132			
L015	9I2c	115		866		221		31.2		49		935		1096		169		65.1		58.9		57.1		152			
L022	9I2b	124		948		250		41.6		98.5	††	921		992		169		91.3		67.2		64.8		152			
L023	9I2b									61		1380		1380		201											
L023	9I2c	128		983		253		37.9										70		81		69		170			
L026	9I2c	122		933		228		38.5		46.4		890		907		162		70		61		55		147			
L028	9I2b	114		945		223		36		50		1075		1330		155		43		44		40		70	††		
L030	9I2b	138		930		251		55.6																			
L036	9I2c																	69.8		68.3		60.5		141			
L040	9I2c	123		1026		240		41		50.2		1172		1125		169		66.2		66.4		56.6		154			
L044	9I2a	131		618	††	222		60.5		53.1		804		997		156		59		48		47		130			
L064	9I2b	132		1088		253		63		76.1	††	1187		2950	††	182		89		79.1		75.6		122			

Lab. Code #	Method Codes	Soil sample identification and values for NOT ASSESSABLE — Phosphorus buffer index – Olsen (9I3a, 9I3b, 9I3c) L/kg air dry — NOT ASSESSABLE																									
		November 2007 (Round 207)								*February 2008 (Round 407)*										*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54			
L030	9I3a	144		967		261		59.3																			
L036	9I3c	154		228		231		52.8		92.1	††	195		551		131											
L040	9I3c	129		1037		251		47		54.3		1202		1224		183		103		81.8		59.8		158			
L044	9I3a	144		646		243		74.1		55.8		818		995		164		78		58		49		131			
L137	9I3a	126		870		239		49.9										907	††	743	††	676	††	857	††		

Lab. Code #	Method Codes	Soil sample identification and values for Phosphate Extractable S (10B3) mg/kg air dry																									
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*									
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54			
L004	10B3	15		99		53		11		14		169		149		32		12		19		14		76			
L011	10B3	16		108		56		12		14		157		142		33		12		22		15		84			
L013	10B3	13		81		44		9		11		131		129		27		10		15		11		67			
L015	10B3	16.2		113		57.6		12.1		14.5		166		151		35.2		13.2		22.3		15.6		85.3			
L019	10B3	11.2		54		44		9.52		9.2		59	††	75	††	18											
L024	10B3	18		104		54		12										15		22		20		81			
L026	10B3	14.8		102		55		10.9		13.3		157		147		32.1		12.7		21.1		14.3		80.3			
L028	10B3	16		115		53		11		14		169		163		36		14		24		17		90			
L032	10B3	19		120		63		13																			
L084	10B3	29	†	68.5		38.5		24.5	††	10.6		150		135		16.4		29	††	38.5	††	18.5		100.5			
L135	10B3	34.8	††	122		149	††	151	††	8.3		245	††	162		12		14.21		7.81	††	17.4		79.3			
L139	10B3	12		41		37		13		11		49	††	42	††	17		10		16		11		71			
L140	10B3	100	††	490	††	120	††	200	††																		

Lab. Code #	Method Codes	Soil sample identification and values for KCl 40 Extractable S (KCl40) mg/kg air dry																									
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*									
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54			
L006	KCl40	25.8	††	50.1		56.7		18.3		11.4		43.8	††	22.3		25.8	†	13.1		17.5		19.8	†	60.4			
L011	KCl40	11		38		36		13		13	†	50		30		21		11		15		14		76			
L018	KCl40	9.4		41		39		10		12		50		31		19		11.3		14.8		11.4		77.3			
L022	KCl40	9.4		40.8		41		9.7		11.2		49.5		29.4		19.2		11.7		14.9		11.2		77			
L023	KCl40	12.3		60	†	51		12.4		11		51	†	33		19		11		16		11		72			
L026	KCl40	8.2		38.7		35.2		8.72		11.5		50		32.8		19.4		9.29		12.3		8.82		68.7			
L030	KCl40	9.94		37.7		33.8		7.2		10.9		49.8		29.6		17.9		9.92		14.1		9.43		63.6			
L036	KCl40	12.5		60.7	†	56.8		15.1		8.83	†	42.9	††	35.3		14.6	†	14		20.1	††	14		93.1	†		
L040	KCl40	9.4		45		41		10		10		56.1	††	27.7		19.4		11		15.4		11.1		73.4			
L064	KCl40	10.1		31.7		30.2		10.7		14.6	††	37.7	††	35.8		20.8		9.14		10.4	†	12.1		78.5			
L120	KCl40	2	††	6.9	††	6	††	21	††																		
L133	KCl40									116	††	314	††	168	††	281	††	67.1	††	95.2	††	54.6	††	228	††		

Lab. Code #	Method Codes	Soil sample identification and values for DTPA Extractable Fe (12A1) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L002	12A1	32		202	††	20		31										66.5		90.9		263	††	17.7	
L004	12A1	26		75		24		14		137	††	46		3.72		9.57	††	39		44		167	††	19	
L005	12A1	19		77		38		13		77		117	††	32	††	96		170	††	150	††	91		77	††
L006	12A1	30.8		98.5		21.1		22.9		25.7		36		3.21		29.1	††	45.4		52.5		68.6		18.4	
L007	12A1	2.8	††	22.4	††	4.8	††	5.4	††	6.3		29.3		0.74		3.44	††	31.29		40.01		43.99		27.7	
L008	12A1	22		124	†	19		27		59		53		4.1		37	†	42		47		94		15	
L009	12A1	31.3		197	††	34.7		21		55.2		85.6		14.1	†	82		59.1		72.9		95.8		28.3	
L011	12A1	30		107		26		21		95	††	87		9.4		74		51		64		138	†	21	
L013	12A1	20.3		66.4		16.8		10.4		30.5		50.4		3		45.2		41.3		46.4		27.1		13	
L014	12A1	43		83		44	†	23										110	††	115	††	118		91	††
L015	12A1	25.9		75.6		24.5		18.1		38.1		57.4		5.45		63.3		45.7		54.7		26.6		21.8	
L018	12A1	32		78		29		18		54		58		7.6		78		51.9		60.8		67.1		24.3	
L019	12A1	21.4		105		18.5		17.6		63		57		6.3		68									
L022	12A1	31		76		31		23		47.2		70.5		14.5	††	77.5		47		56		41		22	
L023	12A1	26		92		31		20		61		66		6.8		74		55		79		110		14	
L024	12A1	43		94		51	††	21		41		49		2		1.2	††	84	††	86		84		35	
L026	12A1	27.4		87.4		25.7		20.2		58.7		60.1		7.78		67.3		51.9		62.1		83.4		24.3	
L027	12A1			170	††	88.2	††	304	††	37.5		56.1		2.73		60		43.6		42.1		38.1		34.8	
L028	12A1	32		83		32		18		71.8		64.1		4.1		75		52.8		67		71		29.2	
L030	12A1	22.8		57.7		22.2		16.7		37.2		49.8		3.26		51.9		42.3		52.1		43		21.2	
L032	12A1	26		74		21		19		33		50		3.3		54									
L035	12A1																	12.3	††	17.2		16.1		6.69	
L036	12A1	29.4		64.3		27.2		16.2		30.1		50.3		2.88		58.6		50.1		63.3		27.8		24.9	
L040	12A1	29		77		23		24		41.8		62.6		4.4		70.1		48.6		60.2		46.5		22.1	
L041	12A1	23.75		52.6		23.6		9.57		41.1		64.1		5.54		75.6		38.16		43.6		25.1		15.6	
L042	12A1									37		56		3		57									
L044	12A1	36		116		40		29		47		54		4.2		65		37		43		32		18	
L045	12A1									63		89	†	43	††	111	††								
L055	12A1	26.3		80.6		26		26.1		37.2		60		2.28		72		49		61.8		27.1		32.2	
L064	12A1	28.3		122	†	18.2		38	††	37.4		61.3		5.86		70.3		76.2	†	91.8		120		27.2	
L080	12A1	38.1		141	††	33.4		26.8										58.5		75		180	††	28.7	
L084	12A1	31		77		27		17		52.1		62.1		5.15		66.5		47		59.5		51		21	
L120	12A1	32		89		39		21		89	††	120	††	48	††	150	††	47		44		25		41	
L133	12A1	35.7		97.3		23.4		26.6		41		72		6.21		62		53.8		68.9		17.5		18.6	
L135	12A1	26.1		75.5		24.9		18.5		109	††	88	†	9.1		69		60.3		69.8		99.7		28.0	
L137	12A1	30		78		23		19										63		75		58		27	
L139	12A1	32		53		37		31		38		22	††	14	†	50		69		44		31		35	
L140	12A1	35000	††	90000	††	43000	††	11000	††																
L158	12A1																	50		70		30		22	

Lab. Code #	Method Codes	Soil sample identification and values for DTPA Extractable Cu (12A1) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L002	12A1	2.6		6.8	†	3.5		0.624										1.86		1.77		0.548		1.57	
L003	12A1																	1.7		1.5		0.45		1.4	
L004	12A1	1.7		3.7		2.2	†	2.3	††	0.479	††	0.476	†	0.006		0.694	††	1.2		0.895		0.372		0.943	
L005	12A1	2.1		4.6		3.6		0.7		1.5	†	2	††	0.44	††	2.7		3	††	2.7	††	0.97	††	2.6	††
L006	12A1	3.91	††	6.65		7.15	††	2.19	††	0.1	††	0.1	††	1.42	††	2.64									
L007	12A1	0.12	††	2.5		1.8	††	0.01	††	0.55	†	1.08		0.23	††			1.26		1.22		0.37		1.45	
L008	12A1	1.8		4.9		2.6		0.48		0.742		0.911		0.03		1.7	††	1.9		1.5		1.1	††	1.7	
L009	12A1	2.6		6.77	†	3.1		0.721		1.49	†	2.35	††	0.771	††	3.46	†	2.71	††	2.4	††	1.31	††	1.9	
L011	12A1	2.1		4.1		2.7		0.427		1.1		1.3		0.084		2.8		1.7		1.4		0.543		1.4	
L013	12A1	1.9		3.9		2.58		0.44		0.82		0.96		0.05		2.34	†	1.38		0.94		0.32		1.06	
L014	12A1	2.2		0.5	††	3.1		0.63										2.1		1.7		0.61	†	1.7	
L015	12A1	2.39		4.47		3.02		0.724		1.12		1.28		0.087		2.78		1.67		1.4		0.52		1.36	
L018	12A1	2.2		4.3		2.9		0.45		0.99		1.2		0.05		3.3	†	1.68		1.31		0.4		1.6	
L019	12A1	1.96		4.19		2.57		0.402		1		1.12		0.045		2.75									
L022	12A1	2.19		4.15		2.95		0.5		0.86		1.39		0.25	††	2.74		1.4		1.3		0.26		1.23	
L023	12A1	2.3		5.4		3.1		0.52		1.2		1.3				3.2	†	1.8		1.6		0.41		1.5	
L024	12A1	2.6		5.5		3.7	†	0.677		1.1		0.865		0.005		0.115	††	2.2		1.6		0.551		1.8	
L026	12A1	2.12		4.18		2.86		0.563		1.08		1.21		0.025		2.81		1.64		1.33		0.43		1.39	
L027	12A1			1.16	††	4.62	††	1.58	††	1.1		1.01		0.03		2.73		1.86		1.25		0.4		1.57	
L028	12A1	2.3		4.4		3.1		0.4		1		1.2		0.05		3		1.7		1.4		0.4		1.6	
L030	12A1	1.83		3.47		2.33		0.419		0.817		0.965		0.03		2.28	†	1.44		1.2		0.374		1.18	
L032	12A1	2.3		4.8		3		0.493		1.1		1.2		0.083		2.7									
L035	12A1																	0.498	††	0.504	††	0.264		0.691	††
L036	12A1	2		3.87		2.66		0.45		0.933		1.07		0.052		2.55		1.67		1.48		0.404		1.32	
L040	12A1	2.23		4.21		2.87		0.548		1.02		1.26		0.049		2.78		1.51		1.39		0.386		1.23	
L041	12A1	2.01		3.52		2.57		0.55		1.14		1.55		0.17	†	2.97		1.59		1.21		0.62	†	1.42	
L042	12A1									0.98		1.2		0.03		2.8									
L044	12A1	2.2		6		3		0.642		0.962		0.947		0.02		2.6		1.9		1.3		0.35		1.3	
L045	12A1									2.1	††	2.3	††	0.9	††	4.25	††								
L055	12A1	2.23		4.97		3.1		0.56		1.05		0.93		0.013		2.68		1.65		1.34		0.43		1.4	
L064	12A1	2.36		7.16	†	3.14		0.33		1.23		1.17		0.17	†	3.07		1.88		1.47		0.65	†	1.46	
L080	12A1	2.1		3.95		2.76		0.526										1.54		1.3		0.61	†	1.36	
L084	12A1	2.16		4.59		2.9		0.45		1.37		1.3		0.045		2.8		1.52		1.35		0.39		1.33	
L091	12A1																	3.45	††	4.85	††	2.11	††	3.64	††
L120	12A1	2.4		5.6		3.4		1.1	††	1.2		2.1	††	0.54	††	4	††	2.4	††	1.7		0.83	††	1.9	
L133	12A1	2.5		5.61		3.32		0.61		9.58	††	14	††	0.027		28	††	1.5		1.26		0.206	†	1.19	
L135	12A1	2.12		4.47		2.83		0.528		1		1.3		0.193	††	2.6		1.58		1.18		0.283		1.28	
L137	12A1	2.5		5.2		3.2		0.56										1.94		1.59		0.53		1.65	
L139	12A1	1.9		2.8		2	†	1	††	0.82		0.59	†	0.12	†	1.3	††	1.3		1.2		0.398		0.867	
L140	12A1	17	††	49	††	23	††	6	††																
L158	12A1																	1.69		1.52		0.45		1.49	

Lab. Code #	Method Codes	Soil sample identification and values for DTPA Extractable Mn (12A1)mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 11 4		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L002	12A1	181		204		71	††	144										104		62.1		4.96		38	
L004	12A1	136		180		40		37	††	47	††	13	††	1.8	††	42	††	83		49		4.6		25	
L005	12A1	146		193		36		85	†	252	††	152	††	0.002		398	††	190	††	99	††	5.4		270	††
L006	12A1	172		222		53		139		79.8	††	63.8	††	0.477		126	††	92.6		54.1		4.72		28.8	
L008	12A1	143		265		45		129		113		102		0.462		169		82		44		4.5		25	
L009	12A1	133		235		44.7		105		127		117		2.06	††	198		88.5		58.3		5.25		38.1	
L011	12A1	158		216		44		125		157		122		1.6	†	256		102		60		5.5		32	
L013	12A1	143		187		38.8		113		137		101		1.8	††	216		82.4		43.4		4.6		25.6	
L014	12A1	145		148		47		107										100		75	††	6	††	59	††
L015	12A1	170		200		49.7		131		153		105		1.47	†	251		91.4		54.8		4.91		33.7	
L018	12A1	160		180		48		120		147		109		0.8		258		99		59		4.8		36	
L019	12A1	147		212		42		114		119		96		0.78		177									
L022	12A1	143		193		42		112		129		114		1.8	††	223		83		49		4.1		40	
L023	12A1	150		270		44		120		140		120		0.8		220		95		58		4.9		29	
L024	12A1	250	††	165		68	††	152	†	236	††	72	†	0.183		27	††	91		53		5.8	†	46	
L026	12A1	153		194		44.9		120		163		112		0.569		236		98.5		57.1		4.74		33.6	
L027	12A1			789	††	116	††	290	††	153		66.3	††	0.01		248		102		56		4.51		47.3	
L028	12A1	175		201		55		126		141		107		0.5		246		95.4		58.2		4.5		44.8	
L030	12A1	145		185		39.4		105		133		106		0.546		222		88.3		52		4.45		31.5	
L032	12A1	157		226		43		117		138		104		0.556		222									
L035	12A1																	34.5	††	27.1	††	3.65		19.1	
L036	12A1	153		182		44.7		115		142		91.6		0.494		234		93.5		56.6		4.64		36.6	
L040	12A1	161		207		47		127		137		114		0.498		228		80		49.6		4.01		28.9	
L041	12A1	143		173		42.4		97.7		145		106		0.7		248		85.6		47.1		4.41		24.7	
L042	12A1									154		117		0.6		255									
L044	12A1	184		392	††	63	†	150		167		95		0.7		285		83		49		4.6		38	
L045	12A1									382	††	117		3	††	638	††								
L055	12A1	163		166		50.7		114		164		78.5	†	0.3		272		94		53		5.23		45	
L064	12A1	156		255		48.4		133		161		113		1.71	††	254		103		58		6.12	††	26.8	
L080	12A1	167		206		46.3		128										95.3		56		5.93	††	29.0	
L084	12A1	169		209		47.5		124.6		158		112		0.68		264		90.1		54.4		4.4		30.3	
L120	12A1	330	††	640	††	100	††	190	††	210	††	130		3.8	††	360	††	98		53		4.2		87	††
L133	12A1	168		167		62.7	†	131		118		100		0.405		160	†	102		50.9		4.59		29.4	
L135	12A1	145		171		44.9		114		139		100		1.9	††	236		113		62		3.69		40.7	
L137	12A1	194		211		60	†	139										109		63		5.2		41	
L139	12A1	93	††	91	††	28	††	57	††	68	††	28	††	0.86		90	††	38	††	16	††	1.5	††	88	††
L140	12A1	930	††	2600	††	730	††	610	††																

Lab. Code #	Method Codes	Soil sample identification and values for DTPA Extractable Zn (12A1) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L002	12A1	0.78		18	††	3.8	††	4.1	††									2.75		5.04		0.624	†	2.01	
L003	12A1																	2.2		3.7		0.44		1.7	
L004	12A1	0.335	†	8		1.9		1.5	††	0.557	†	2.1	††	0.025		0.51	††	1.7		3.3		0.222		1.4	
L005	12A1	0.7		7.4		2.4		1.9	††	1.6	††	11	††	0.63	††	2.4		2		4.1		0.001	††	0.73	††
L006	12A1	1.95	††	20.1	††	5.84	††	7.3	††	0.309	††	2.76	†	0.04		0.84	†	1.86		4.22		0.33		1.73	
L007	12A1	0.26	††	4.9	††	2.3		2.2	††	0.81		5.28		0.22		1.32		2.27		4.14		0.75	††	1.98	
L008	12A1	0.49		12		3		3.3		2.6	††	4.6		0.02		1.2		1.7		3		0.377		1.4	
L009	12A1	0.738		13.9	††	2.6		3.16		0.856		7.62		0.192		2.09		2.57		4.73		0.571	†	1.95	
L011	12A1	1.2	††	10		2.3		3.7		0.957		6.6		0.135		2		2.3		4.4		0.57	†	2	
L013	12A1	0.78		9.32		2.28		2.9		0.74		5.72		0.05		1.54		1.98		3.4		0.28		1.3	
L014	12A1	0.77		8.3		3.2	†	3										2.9		5.4		0.81	††	2.86	††
L015	12A1	0.669		9.84		1.94		3.32		0.82		5.76		0.126		1.85		2.22		4.1		0.425		1.77	
L018	12A1	0.69		10		2.9		3.2		0.8		5.7		0.07		2.2		2.29		4.26		0.36		1.95	
L019	12A1	0.613		10.5		2.37		3.31		0.72		5.3		0.13		1.5									
L022	12A1	0.66		9.63		2.38		3.25		0.74		6.2		0.15		1.8		2.14		3.85		0.33		1.69	
L023	12A1	0.53		12		2.2		3		0.88		7.8	†			2.1		2.3		4.6		0.35		2	
L024	12A1	0.962		10.5		3.3	†	3.7		0.734		5		0.151		0.035	††	5.8	††	6	††	3.9	††	4	††
L026	12A1	0.64		9.31		2.13		3.03		0.88		6		0.004		1.81		2.31		4.26		0.363		1.92	
L027	12A1			14	††	2.52		6.32	††	0.83		4.98		0.01		1.56		2.53		3.76		0.3		1.9	
L028	12A1	0.7		10.1		2.4		3		0.8		5.7		0.1		2		2.2		4.3		0.4		2.1	
L030	12A1	0.554		8.67		2.34		3.05		0.843		4.94		0.104		1.69		2.02		3.8		0.322		1.61	
L032	12A1	0.608		10		2.7		3.1		1.05	†	6.3		0.148		2.1									
L035	12A1																	0.904	††	2.04	††	0.252		0.845	††
L036	12A1	0.587		9.05		2.41		2.99		0.715		5.3		0.054		1.78		2.38		4.44		0.337		1.73	
L040	12A1	0.633		10		2.48		3.4		0.755		6.65		0.06		1.76		2.13		3.86		0.533		1.63	
L041	12A1	0.76		10.3		3.07		2.67		0.83		6.67		0.19		2.36		2.35		4.26		0.48		2.46	
L042	12A1									0.8		5.4		0.04		2									
L044	12A1	0.695		14	††	2.2		3.7		0.808		5.6		0.053		1.9		2.4		4.2		0.37		1.8	
L045	12A1									1.25	††	8.55	†	0.3	††	3	††								
L055	12A1	0.63		11		3.46	††	3.14		0.97		7.23		0.035		2.02		2.41		4.02		0.33		1.89	
L064	12A1	0.77		10.5		2.46		3.65		0.8		5.86		0.15		2.26		2.7		4.71		0.48		2.07	
L080	12A1	0.573		9.14		2.34		3.23										2.21		4.65		0.462		1.903	
L084	12A1	0.66		10.2		2.64		3.03		0.78		6.17		0.07		1.96		2.08		4.13		0.34		1.82	
L120	12A1	0.78		12		2.5		3.6		0.49	††	9.3	††			1.7		2.3		3.6		0.29		1.6	
L133	12A1	1.23	††	10.9		2.78		3.33		6.06	††	71	††	0.085		14	††	2.1		3.97		0.654	††	1.63	
L135	12A1	0.538		9.26		2.19		2.94		0.868		5.9		0.098		1.8		2.56		4.60		0.4		2.08	
L137	12A1	0.92		11		2.7		3.5										3.3	††	5.6		1	††	2.4	
L139	12A1	0.61		5.8	††	2.1		3.2		0.63		2.3	††	0.12		1.1		2.1		3		0.307		1.2	
L140	12A1	47	††	120	††	70	††	40	††																
L158	12A1																	2.47		4.82		0.33		2.07	

Lab. Code #	Method Codes	Soil sample identification and values for Hot CaCl2 Extractable B – manual colour (12C1) mg/kg air dry																									
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*									
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54			
L011	12C1																	0.944		1.7		1.3		2.1			
L014	12C1	0.86		1.30		1.81		0.54																			
L041	12C1	0.75		1.11		1.83		0.47		0.73		0.67		0.22		0.76		0.67		1.01		0.62		1.79			
L064	12C1	1.2		1.91		1.68				1.05		0.95		0.32		0.94		0.84		1.53		0.64		1.98			
L080	12C1	0.40		0.98		1.14	†	0.084										0.51		0.97		0.25		1.72			
L084	12C1	0.98		1.51		2.41	†	0.37		0.7		0.51		0.42		1.1		0.51		0.97		0.36		5.5	††		
L137	12C1	0.72		1.1		1.8		0.62										1.16		1.4		0.98		1.46			
L140	12C1	0.5		0.5		1	††	0.5																			

Lab. Code #	Method Codes	Soil sample identification and values for Hot CaCl2 Extractable B - ICPAES (12C2) mg/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L004	12C2	0.96		1.8		0.94		0.92		1		0.41		0.39		0.75		0.74		1.3		0.63		1.0	
L008	12C2	1.3		1.9		2		0.76		1.1		0.6		0.73		1.2		0.67		1.1		0.42		2.6	
L009	12C2	0.76		0.91		1.65		0.41		1.07		0.39		0.37		0.88		0.47		0.88		0.25		2.0	
L011	12C2	1.6		2.1		3.1		0.89		1.2		0.87		0.78		1.7									
L013	12C2	1.1		1.8		2		0.6		1.1		0.7		1		1.4		0.3		0.6		0.25		1.1	
L018	12C2	0.5		1.1		0.63	††	0.41																	
L019	12C2	1.18		1.98		1.68		0.70		1.09		0.62		0.51		1.02									
L022	12C2	1.1		1.68		2.31		0.7		0.99		0.68		0.77		1.35		0.62		0.92		0.53		2.3	
L023	12C2	0.98		1.47		1.85		0.42		0.55	††	0.38		0.3		1.1		0.45		0.76		0.26		2.8	
L024	12C2	0.81		0.86		0.324	††	0.66		1		0.58		0.28		1.2		0.59		0.90		0.37		0.84	
L026	12C2	0.97		1.63		2.19		0.58		0.91		0.58		0.64		1.17		0.53		1.1		0.34		2.53	
L028	12C2	1.2		1.9		2.2		0.7		1		0.7				1.4		0.8		1.5		0.8		2.5	
L030	12C2	1.06		1.58		2.24		0.53		0.87		0.57		0.575		1.17									
L032	12C2	1.4		2.2		2.6		0.77		1.2		0.81		0.964		1.7									
L036	12C2	0.79		1.52		1.2		0.51		0.84		0.42		0.33		0.82		0.49		1.06		0.32		1.95	
L040	12C2	1.00		1.66		1.77		0.51		0.95		0.62		0.67		1.45		0.61		1.45		0.56		2.87	
L055	12C2	0.88		1.15		1.85		0.31		0.86		0.55		0.59		1.36									
L120	12C2	2.2	††	3.7	††	2.2		0.9		0.96		0.91		1		1.4		0.59		1.1		0.42		3	
L133	12C2	1.46		2.34		2.41		0.88		1.34		1.07		0.95		1.77		0.84		1.88		0.61		3.18	
L135	12C2	0.83		1.08		1.70		0.60		0.59		0.79		0.65		1.6		0.51		1.12		0.34		2.14	
L139	12C2	1.1		0.85		2.6		0.87		0.5	††	0.26		0.4		0.82		0.36		0.77		0.12		3	
L143	12C2									1.11		0.92		0.98		1.48		0.84		1.4		0.67		1.9	

Lab. Code #	Method Codes	Soil sample identification and values for Exchangeable Ca - 1M NH4Cl extract (15A1) cmol+/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L005	15A1	2.6	††	1.5	††	2.9	††	1.9	††	4.4		3	†	2.5		19		9		13		4.2		16	
L007	15A1	18.1		7.9		43.7		8.8		4.43		4.2		2.5		32.3	††	7.14		4.3	††	4.8		9.32	
L008	15A1	20		9.4		39		9.8		5.2		5		2.8		21		8.6		14.1		3.76		17.4	
L011	15A1	22.2		10.1		40.6		11.4		5.82		5.65		3.09		23.1		11		17.5		5.78	†	25.2	
L014	15A1	24	††	9		45		12										6.2	††	10.3	††	2.7	†	13.9	
L015	15A1	22.6	†	10.5		41.6		11.3		5.77		5.49		2.96		22.9		9.93		15.9		4.54		22.7	
L018	15A1	19.9		9.82		35.9		9.93		5.68		5.5		2.99		23.6		9.7		16		4.4		24.1	
L022	15A1	20.8		9.65		38.9		10.0		5.04		4.98		2.95		20.5		9.12		14.7		4.38		14.6	
L023	15A1	21		10		40		11		5.8		5.6		3.2		24		8.57		14.6		3.71		17.6	
L024	15A1	19.8		9.15		38.5		9.64		4.88		5.08		2.73		21.9		8.33		14.23		4.28		23.5	
L027	15A1	3.9	††	1.8	††	7.6	††	1.9	††	1.1	††	1	††	0.6	††	4.3	††	1.8	††	3.4	††	0.9	††	5	
L028	15A1	20.1		10.3		42.4		11.3		5.79		5.54		2.93		22.5		8.81		15.3		4.26		21.8	
L032	15A1	19.7		9.11		36.8		9.94		5.11		4.8		2.52		22.2									
L035	15A1	93.6	††	54.3	††	115	††	95.3	††	5.66		5.34		2.88		23.4									
L036	15A1	19.7		11.4		48.4		13.6		5.6		5.7		3.35		45.4	††	9.04		15.2		3.92		19.7	
L044	15A1	20.7		9.75		38.1		10.4		5.36		4.87		2.86		21.8		9.25		15.5		4.27		21.9	
L045	15A1									5.36		4.97		5.77	††	20.8									
L055	15A1									4.94		4.48		3.04		22.5		9.61		15.4		4		20.9	
L064	15A1	21.1		11.1		32.4		11.3		6.31		5.66		2.98		22.5		12.1	††	19.5	††	5.4		26.8	
L080	15A1	26.5	††	8.34		52.5	†	12.4										9.60		22	††	3.48		21.2	
L120	15A1																	3.7	††	6.5	††	1.6	††	8.1	
L133	15A1	20.1		7.53		51.8		9.2		5.17		4.75		2.8		21		8.5		15		3.6		19	

Lab. Code #	Method Codes	Soil sample identification and values for Exchangeable Mg - 1M NH4Cl extract (15A1) cmol+/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L005	15A1	0.69	††	0.063	††	1.5	††	0.091	††	0.8		0.83		4.9		7	††	4.4		4.3		1		10	
L007	15A1	10.5	†	1.8		16.9	††	3.2		0.69		0.82		4.5		7.8		6.17	††	3.98		4	††	3.9	††
L008	15A1	12		2.1		31		3.3		0.77		0.96		4.9		8.8		4.29		4.17		0.87		8.95	
L011	15A1	13.3	†	2.76	†	33.6		4.21		1.19	††	0.80		0.4	††	1.62	††	5.25	†	5.08	††	1.47	††	10.8	
L014	15A1	9	††	6.4	††	29		7.06	††									2.54	††	2.46	††	0.65		6.06	†
L015	15A1	12.6		2.24		31.8		3.72		0.83		1		5		9.06		4.47		4.18		0.95		9.61	
L018	15A1	11.8		2.17		28.6		3.36		0.82		1.03		5.2		9.38		4.6		4.5		1		9.8	
L022	15A1	11.9		2.06		30.9		3.43		0.78		0.98		5.04		8.88		4.22		4.18		0.87		8.14	
L023	15A1	12		2.27		32		3.8		0.89		1.1		5.5		10		4.35		4.27		0.9		8.65	
L024	15A1	12		2.05		31.1		3.24		0.73		0.94		5.03		9.09		3.95		3.99		0.98		8.94	
L027	15A1	2.4	††	0.4	††	6.2	††	0.6	††	0.2	††	0.2	††	1	††	1.8	††	0.9	††	1	††	0.2	††	2.1	††
L028	15A1	11.6		2.4		32.4		4.23		0.84		1.02		4.92		9.09		4.29		4.39		0.992		9.63	
L032	15A1	10.7		1.97		28.3		3.41		0.782		0.96		4.76		8.56									
L035	15A1	21.2	††	351	††	36.6		21.9	††	0.74		0.95		4.75		8.6									
L036	15A1	11.4		2.25		33		4.02		0.91		1.31	††	7.13	††	13.7	††	4.53		4.36		0.917		9	
L044	15A1	12		2.13		29.8		3.71		0.85		1.03		5.56		9.45		4.8		4.72		1.07		10.1	
L045	15A1									0.8		0.94		5.09		8.61									
L055	15A1									0.76		0.89		4.92		8.46		4.16		4.09		0.82		9.47	
L064	15A1	11.9		2.69	†	15	††	4.03		0.97		1.13		5.26		8.96		5.8	††	5.7	††	1.68	††	9.5	
L080	15A1	11.3		2.1		31.5		3.68										3.71		3.92		0.91		8.2	
L120	15A1																	1.7	††	1.8	††	0.27	††	4.2	††
L133	15A1	11.6		1.65		39.8	††	2.9		0.74		0.94		4.63		8.12		3.7		3.7		0.78		8	

Lab. Code #	Method Codes	Soil sample identification and values for Exchangeable Na - 1M NH4Cl extract (15A1) cmol+/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L005	15A1	0.057	††	0.026	††	0.661	††	0.007		0.002		0.14		0.5		0.21		0.12		0.078		0.17		19	
L007	15A1	0.92	††	1.3	††	16.1	††	0.18	†	0.25	††	0.16		1.03	††	0.5	††	0.34	††	0.26		0.22		0.19	††
L008	15A1	0.55		0.35		6.3		0.05		0.062		0.175		0.479		0.239		0.387	††	0.304		0.366	††	15.7	
L011	15A1	0.572		0.382		6.29		0.066		0.904	††	1.08	††	5.49	††	9.42	††	0.149		0.159		0.224		17.8	
L014	15A1	3.7	††	2.1	††	5		1.8	††									0.56	††	0.65	††	0.3		6.17	†
L015	15A1	0.599		0.378		6.02		0.069		0.061		0.19		0.527		0.295		0.137		0.112		0.209		15.9	
L018	15A1	0.627		0.394		5.45		0.09		0.04		0.306	†	0.589		0.323									
L022	15A1	0.57		0.36		6.2		0.05		0.026		0.155		0.475		0.228		0.08		0.08		0.12		15.8	
L023	15A1	0.55		0.37		6.74						0.18		0.53		0.26		0.08		0.05		0.14		16.5	
L024	15A1	0.55		0.38		7.07		0.053		0.08		0.223		0.517		0.293		0.18		0.18		0.16			
L027	15A1	0.1	††	0.1	††	1.1	††	0.1		0.01		0.01	††	0.1	††	0.05	††	0.02		0.01		0.03		3.4	††
L028	15A1	0.509		0.358		6.38		0.225	†	0.04		0.157		0.441		0.23		0.159		0.122		0.208		16.6	
L032	15A1	0.536		0.367		5.84		0.050		0.014		0.151		0.434		0.213									
L035	15A1	4.74	††	64.1	††	0.7	††	4.55	††	0.08		0.26		0.61		0.36									
L036	15A1	0.693		0.418	†	6.34		0.088		0.032		0.22		0.549		0.316		0.101		0.071		0.129		15.4	
L044	15A1	0.523		0.32	†	6.63		0.11		0.062		0.087		0.259	†	0.154		0.073		0.032		0.125		15.4	
L045	15A1									14.0	††	8.15	††	27.4	††	16.2	††								
L055	15A1									0.013		0.14		0.46		0.21		0.082		0.055		0.14		17.4	
L064	15A1	0.604		0.379		5.3		0.354	††	0.09		0.25		0.54		0.29		0.17		0.19		0.18		12.4	
L080	15A1	0.57		0.37		5.75		0.1										0.116		0.085		0.112		8.5	†
L120	15A1																	0.29		0.31		0.33		2	††
L133	15A1	0.25	††	0.17	††	2.66	††	0.02		0.04		0.17		0.44		0.22		0.12		0.11		0.14		7.1	†

Lab. Code #	Method Codes	Soil sample identification and values for Exchangeable K - 1M NH4Cl extract (15A1) cmol+/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L005	15A1	0.11	††	0.13	††	0.113	††	0.05	††	1.7	††	1.1		0.5		2.1		1.2	††	0.96	††	0.48	††	0.61	
L007	15A1	1.28		1.4		1.6		0.3		1.07		0.72		0.35		1.7		0.15	††	0.32	††	0.32	††	0.23	
L008	15A1	1.5		1.5		1.9		0.29		1.1		0.848		0.434		1.68		0.653		0.546		0.191		0.4	
L011	15A1	1.59		1.63		2		0.304		0.021	††	0.171	††	0.468		0.224	††	0.53		0.508		0.046		0.296	
L014	15A1	3.2	††	2.3	††	4.8	††	1.4	††									0.46		0.51		0.15		1.45	††
L015	15A1	1.61		1.62		1.94		0.285		1.24		0.879		0.494		1.7		0.653		0.506		0.161		0.356	
L018	15A1	1.5		1.55		1.74		0.316		1.29		0.9		0.5		1.85		0.709		0.587		0.192		0.383	
L022	15A1	1.45		1.46		1.9		0.3		1.09		0.71		0.45		1.63		0.57		0.46		0.15		0.46	
L023	15A1	1.61		1.72		2.1		0.33		1.4		1		0.53		2		0.61		0.51		0.13		0.35	
L024	15A1	1.48		1.59		1.89		0.3		1.19		0.86		0.479		1.7		0.72		0.59		0.18		0.49	
L027	15A1	0.3	††	0.3	††	0.4	††	0.1	††	0.2	††	0.2	††	0.09	††	0.4	††	0.1	††	0.1	††	0.04		0.09	†
L028	15A1	1.43		1.57		2.02		0.33		1.36		0.962		0.489		1.82		0.657		0.548		0.182		0.381	
L032	15A1	1.42		1.45		1.71		0.279		1.19		0.906		0.445		1.87									
L035	15A1	15.5	††	20	††	3.2	††	17.3	††	1.31		1.04		0.52		1.82									
L036	15A1	1.79		1.69		2.73	††	0.339		1.18		0.923		0.514		1.87		0.663		0.529		0.137		0.42	
L044	15A1	1.32		1.42		1.83		0.234		1.14		0.697		0.363		1.54		0.606		0.481		0.164		0.386	
L045	15A1									1.09		0.76		0.44		1.55									
L055	15A1									1.11		0.75		0.43		1.54		0.59		0.48		0.15		0.38	
L064	15A1	1.42		0.75	††	1.96		0.292		1.18		0.6		0.25	††	1.33		0.57		0.48		0.18		0.43	
L080	15A1	1.54		1.59		1.87		0.36										0.54		0.4		0.054		0.225	
L120	15A1																	0.4		0.19	††	0.05		0.15	
L133	15A1	1.7		1.6		3.09	††	0.33		1.36		1.02		0.53		1.92		0.23	††	0.19	††	0.05		0.21	

Lab. Code #	Method Codes	Soil sample identification and values for Exchangeable Ca - 1M NH4OAc extract (15D3) cmol+/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L002	15D3	21.9		8.09		38.7		10.6										9.73		16.0		4.49		23.0	
L003	15D3	49.8	††	18.8	††	87.4	††	21.1	††																
L004	15D3	20.4		8.92		44.7		11.5		5.79		5.04		2.85		21.8		9.51		15.9		4.21		30.5	††
L006	15D3	22.2		8.77		48.3		10.9		5.43		4.92		2.8		20.5		9.34		15.9		4.14		25.2	
L009	15D3	23		9.92		42.1		12.3		6.4		5.7		3.33	††	24.5		9.75		16.3		4.24		25.8	†
L011	15D3	22.4		9.35		47.7		11.9		6.06		5.2		3.09		23.6		9.92		16.4		4.62		20.6	
L012	15D3	20.7		7.7		37.7		10.8		5.22		4.5		2.64		21.4		8.97		15.3		3.83		20.0	
L013	15D3	21.3		8.2		41.7		10		5.8		5.1		3		22.8		8.9		14.9		4.1		24.3	
L017	15D3	22.7		8.83		35.9		15.6	††	5.59		4.6		2.83		22.4		9.7		16.2		5.06	††	22.2	
L019	15D3	20.1		9.91		25.7	†	11.4		5.29		4.72		2.49		19.1									
L024	15D3	17.2		7.1		31		7.74	††	4.55		4.08		2.69		17.3	††	7.57	††	17.9		3.61		18.6	
L026	15D3	20.2		8.26		34.8		10.5		5.35		4.61		2.79		21.4		9.16		15.3		3.91		19.3	
L030	15D3	20.3		7.87		35.4		9.66		4.95		4.44		2.67		21		8.47		14.1		3.51		17.1	
L035	15D3																	9.56		15.7		4.13		37.5	††
L040	15D3	20.6		8.22		35		10.1		5.24		4.71		2.72		22.3		8.58		14.5		3.69		17.5	
L041	15D3	23.1		8.54		34.2		110	††	6.02		5.38		4.52	††	19.0		7.86		13.6		5.3	††	15.9	
L042	15D3	22.4		9.3		37.1		11.8		5.37		4.35		2.76		21.7		9.88		16.7		3.72		19.1	
L046	15D3																	8.91		15.7		3.92		18.2	
L055	15D3	20		7.97		34.7		10.2																	
L084	15D3	20.0		7.83		39.03		10.0		5.30		4.58		2.76		21.3		8.62		14.5		3.89		18.7	
L100	15D3									5.04		4.23		2.79		22.1									
L120	15D3	39	††	7		19	††	9		5.8		4.7		2.8		19									
L135	15D3	19.1		8.1		34.2		10.2		5.73		5.09		3.19	†	21.9		9.72		16.2		4.28		18.2	
L137	15D3	20.3		7.98		39.7		10.2										9.21		15		4		21.9	
L139	15D3	19.4		9.53		39.6		10.7		4.93		4.65		2.69		18	†	9.55		13.4		3.56		17.8	
L158	15D3																	10		17.9		4.08		8.65	††

Lab. Code #	Method Codes	Soil sample identification and values for Exchangeable Mg - 1M NH4OAc extract (15D3) cmol+/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L002	15D3	10.9		1.77		24.2		3.16										4.32		4.07		0.917		8.7	
L003	15D3	24.6	††	1.76		50.2	††	7.36	††																
L004	15D3	11.2		1.77		30.3		3.40		0.697		0.807		4.65		8.12		4.26		4.06		0.779		9.50	
L006	15D3	12.7		2.08		31.9		3.72		0.85	†	1.07		5.43	††	9.29		4.42		4.2		0.9		9.27	
L009	15D3	9.44	††	2.23		16	††	3.72		0.926	††	1.13		4.98		7.55		4.37		4.28		0.989		7.56	
L011	15D3	12.2		1.89		30.7		3.51		1.12	††	0.749		0.338	††	1.55	††	4.6		4.49		1.09		9.09	
L012	15D3	12		1.85		21.4	†	3.86	†	0.742		0.92		4.77		8.51		4.17		4.11		0.837		9.07	
L013	15D3	11.8		1.97		30.1		3.38		0.84		0.99		4.99		8.86		4.26		4.28		0.92		9.49	
L017	15D3	12.9		2.06		29.0		5.05	††	0.82		0.95		4.99		8.75		4.59		4.5		1.12		10.9	††
L019	15D3	10.9		1.94		23.8		3.38		0.742		0.855		4.41		7.55									
L024	15D3	10.5		1.57		27.4		0.24	††	0.747		0.932		4.97		8.3		3.3	††	3.31	††	0.78		6.75	††
L026	15D3	11.6		1.94		27.8		3.37		0.791		0.958		4.89		8.67		4.44		4.32		0.913		8.91	
L030	15D3	11.2		1.85		26.5		3.09		0.717		0.897		4.5		8.35		4.03		3.96		0.828		8.1	
L035	15D3																	4.02		3.99		0.74		8.98	
L040	15D3	11.6		1.89		28		3.29		0.74		0.934		5.12		8.87		4.16		4.04		0.856		7.98	
L041	15D3	11.9		1.77		27.4		3.13		1.01	††	1.07		4.8		8.97		4.09		4.5		1.07		8.51	
L042	15D3	12.6		1.98		29.5		3.47		0.76		0.79		4.86		8.85		4.44		1.44	††	0.91		9.42	
L046	15D3																	4.43		4.3		0.961		8.59	
L055	15D3	11.4		1.89		28.8		3.32																	
L084	15D3	11.6		1.89		29.8		3.32		0.748		0.921		4.72		4.84	††	4.06		3.96		0.924		9.08	
L100	15D3									0.731		0.845		4.93		8.58									
L120	15D3	12		4.3	††	11	††	3.5		0.87	†	1.1		4.7		9.1									
L135	15D3	11.5		1.98		15.7	††	3.55		0.796		0.972		4.92		8.43		4.53		4.40		0.985		8.57	
L137	15D3	13		2.03		33.8		3.4										4.32		4.2		0.871		8.98	
L139	15D3	12		2.26		30.5		3.62		0.746		0.9		4.52		7.75		4.6		4		0.963		9.2	
L158	15D3																	4.52		4.58		0.905		7.93	

Lab. Code #	Method Codes	Soil sample identification and values for Exchangeable Na - 1M NH4OAc extract (15D3) cmol+/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L003	15D3	1.76	††	1.54	††	8.44	††	6.54	††																
L004	15D3	0.697	†	0.4		6.29		0.172		0.065		0.16		0.448		0.401		0.164		0.141		0.123		16.3	
L006	15D3	0.57		0.37		6.05		0.05		0.032		0.176		0.502		0.255		0.12		0.083		0.163		16.7	
L009	15D3	0.681		0.47		7.13	††	0.132		0.132	†	0.257		0.627		0.341		0.165		0.111		0.198		18.8	
L011	15D3	0.541		0.336		5.76		0.119		0.821	††	0.966	††	5.11	††	9.03	††	0.061		0.072		0.121		15.9	
L012	15D3	0.5		0.3		5.6		0.09		0.037		0.205		0.487		0.251		0.092		0.068		0.141		17.7	
L013	15D3	0.53		0.37		5.93		0.06		0.05		0.21		0.55		0.27		0.12		0.12		0.17		11.6	††
L017	15D3	0.53		0.3		5.72		0.01		0.11		0.17		0.49		0.28		0.1		0.03		0.2		18.1	
L019	15D3	0.496		0.335		5.23		0.028		0.2	††	0.331	†	0.613		0.365									
L024	15D3	0.61		0.411		7.02	††	0.046		0.018		0.164		0.534		0.245		0.07		0.01		0.19		16	
L026	15D3	0.535		0.352		5.51		0.04		0.025		0.16		0.466		0.221		0.092		0.062		0.145		15.4	
L030	15D3	0.565		0.357		5.53		0.061		0.026		0.165		0.463		0.229		0.102		0.075		0.152		16.2	
L035	15D3																	0.172		0.159		0.226		15.8	
L040	15D3	0.58		0.367		4.91	†	0.057		0.029		0.179		0.449		0.298		0.117		0.103		0.158		13.4	
L041	15D3	0.91	††	0.68	††	5.65		0.43	††	0.39	††	0.5	††	0.82	††	0.64	††	0.58	††	0.51	††	0.63	††	14.6	
L042	15D3	0.52		0.32		6.51		0.04		0.01		0.15		0.43		0.22		0.09		0.06		0.13		16.5	
L046	15D3																	0.176		0.177	†	0.162		16.6	
L055	15D3	0.47		0.32		5.91		0.033																	
L084	15D3	0.516		0.336		5.78		0.048		0.029		0.159		0.441		0.22		0.093		0.071		0.138		16.0	
L100	15D3									0.075		0.321	†	0.623		0.413									
L120	15D3	6.1	††	0.43		0.74	††	0.09		0.1		0.25		0.55		0.41									
L135	15D3	0.581		0.404		5.72		0.151		0.306	††	0.486	††	0.889	††	0.60	††	0.127		0.055		0.138		15.2	
L137	15D3	0.87	††	0.652	††	5.87		0.122										0.152		0.13		0.204		17.2	
L139	15D3	0.894	††	0.41		3.91	††	0.08		0.057		0.245		0.503		0.324		1.15	††	0.299	††	0.309	††	4.15	††
L158	15D3																	0.093		0.06		0.142		15.2	

Lab. Code #	Method Codes	Soil sample identification and values for Exchangeable K - 1M NH4OAc extract (15D3) cmol+/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L002	15D3	1.21		1.25		1.33		0.216										0.61		0.506		0.203		0.406	
L003	15D3	1.28		1.41		1.55		0.27																	
L004	15D3	1.62		1.43		2.44	††	0.314		1.82	††	1.33	††	1.08	††	2.40	††	0.663		0.577		0.188		0.586	
L006	15D3	1.3		1.34		1.58		0.16	††	1.2		0.84		0.413		1.76		0.636		0.515		0.176		0.502	
L009	15D3	1.43		1.5		1.76		0.326		1.23		0.918		0.504		1.73		0.67		0.547		0.177		0.419	
L011	15D3	1.56		1.59		1.86		0.268		0.060	††	0.13	††	0.422		0.186	††	0.752	††	0.621		0.197		0.508	
L012	15D3	1.41		1.46		1.71		0.33		1.19		0.88		0.513		1.67		0.65		0.561		0.267	††	0.448	
L013	15D3	1.36		1.48		1.66		0.29		1.31		0.94		0.51		1.78		0.61		0.51		0.18		0.35	
L017	15D3	2.1	††	1.58		1.9		0.47	††	1.24		0.86		0.46		1.68		0.73	††	0.59		0.25	††	0.49	
L019	15D3	1.2		1.38		1.2	†	0.267		1.08		0.75		0.383		1.31	†								
L024	15D3	1.32		1.37		1.75		0.276		1.05		0.73		0.399		1.38	†	0.6		0.48		0.2		0.44	
L026	15D3	1.39		1.5		1.61		0.3		1.21		0.86		0.46		1.64		0.646		0.522		0.185		0.369	
L029	15D3	1.48		1.55		0.31	††	1.65	††									0.661		0.485		0.18		0.415	
L030	15D3	1.43		1.45		1.68		0.275		1.14		0.834		0.437		1.66		0.618		0.493		0.154		0.346	
L035	15D3																	0.745	††	0.565		0.175		0.41	
L040	15D3	1.5		1.49		2.15	†	0.369		1.08		0.844		0.488		1.82		0.634		0.587		0.177		0.572	
L041	15D3	1.4		1.39		1.64		0.27		1.16		0.82		0.45		1.62		0.66		0.55		0.21		0.45	
L042	15D3	1.43		0.77	††	1.81		0.32		0.99		0.77		0.45		1.63		0.67		0.54		0.17		0.37	
L046	15D3																	0.746	††	0.642		0.213		0.841	††
L055	15D3	1.27		1.26		1.44		0.24																	
L084	15D3	1.39		1.45		1.66		0.295		1.18		0.852		0.458		1.77		0.635		0.517		0.168		2.13	††
L100	15D3									0.987		0.748		0.492		1.43									
L120	15D3	1.9	††	1.1	††	1.4		0.24		1.1		0.82		0.46		1.7									
L135	15D3	1.33		1.43		1.62		0.293		1.76	††	1.31	††	0.72	††	2.82	††	0.636		0.521		0.17		0.361	
L137	15D3	0.27	††	0.31	††	0.30	††	0.257										0.638		0.503		0.167		0.354	
L139	15D3	1.71		1.72	††	2.19	†	0.395	†	1.06		0.874		0.469		1.66		0.769	††	0.564		0.188		0.568	
L158	15D3																	0.657		0.525		0.176		0.364	

Lab. Code #	Method Codes	Exchangeable Al - 1M NH4OAc extract (15G1) cmol+/kg air dry																							
		November 2007 (Round 207)								*February 2008 (Round 407)*								*May 2008 (Round 607)*							
		ASS 111		ASS 112		ASS 113		ASS 114		ASS 21		ASS 22		ASS 23		ASS 24		ASS 51		ASS 52		ASS 53		ASS 54	
L004	15G1	0.015		0.052		0.006		0.019		0.012		0.1		0.02		0.011		0.02		0.004		0.029		0.007	
L009	15G1	0.001		0.041		0.001		0.001		0.002		0.125		0.022		0.002		0.001		0.001		0.050		0.001	
L011	15G1	0.172	††	0.394		0.15	††	0.125	††	0.16	††	0.745		0.184		0.174	††	0.048	†	0.021		0.259		0.035	†
L019	15G1	0.052	†	0.412		0.053	††	0.041	†	0.041	†	0.74		0.085		0.055	††								
L022	15G1	0.01		0.17		0.006		0.01		0.011		0.64		0.099		0.01		0.01		0.01		0.2		0.012	
L024	15G1									0.008		0.241		0.008		0.008		0.05	†	0.05	††	0.179		0.05	††
L026	15G1	0.036		0.221		0.022		0.003		0.028		0.721		0.132		0.044	††	0.033		0.002		0.266		0.012	
L028	15G1	0.015		0.015		0.015		0.015		0.19	††	0.61		0.16		0.015		0.04		0.015		0.21		0.015	
L029	15G1	0.025		0.125		0.001		0.016										0.118	††	0.101	††	0.553	††	0.068	††
L030	15G1	0.001		0.179		0.001		0.002		0.007		0.667		0.104		0.005		0.011		0.005		0.216		0.001	
L036	15G1	0.007		0.136		0.009		0.008		1.67	††	0.012	††	0.096		1.16	††	0.005		0.006		0.198		0.005	
L040	15G1	0.005		0.143		0.004		0.004		0.007		0.611		0.111		0.008		0.008		0.009		0.175		0.007	
L042	15G1																	0.1	††	0.05	††	0.1		0.05	††
L044	15G1	0.167	††	0.222		0.19	††	0.06	††																
L064	15G1	0.02		0.1		0.01		0.02		0.002		0.38		0.03		0.001		0.01		0.02		0.06		0.005	
L133	15G1	0.001		0.066		0.002		0.001		0.001		0.55		0.08		0.01		0.001		0.001		0.012		0.001	
L137	15G1	0.005		0.086		0.005		0.005										0.012		0.019		0.173		0.019	
L158	15G1																	0.011		0.007		0.348		0.012	