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2022

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Foreword

This is the latest of ASPAC's many inter-laboratory proficiency program (ILPP) reports for soils since 1993. This reporting format for soils has applied since ASPAC's 2004-05 annual program (see Rayment *et al*. 2007)[1]. Nowadays, ILPPs for common soil chemical tests have three "rounds" each of four carefully prepared and milled air-dry soils. Similar annual programs for milled plant tissue samples operate concurrently (e.g., Lyons *et al.* 2013)[2].

This ILPP continued ASPAC's Australasian focus and targeted laboratories in the private, government and university sectors that provide soil testing services for a range of purposes. These mostly locate in Australia, New Zealand, Oceania, and in parts of South-east Asia.

The Service Provider for ASPAC is Global Proficiency Ltd. This company operates mainly out of New Zealand, with key personnel and contact details provided on page iv.

Technical aspects of this ILPP were specified and oversighted by ASPAC's Laboratory Proficiency Committee (LPC), recent membership of which is listed on page iv. In addition, LPC members and two key personnel from the Service Provider participate annually in a Technical Advisory Group (TAG), chaired by a senior representative of the Service Provider.

The ASPAC-LPC and the ASPAC Executive Committee also appreciate the efforts made by laboratories who utilized this method-specific proficiency program. By participating, they share a commitment to and responsibility for perceived measurement quality across Australasia, noting that proficiency in measurement is only a component of laboratory accreditation to Australian Standard AS ISO/IEC 17025:2018, and New Zealand Standard NZS ISO/IEC 17025:2018, which should be an achievement goal for laboratory managers.

An electronic copy of this report, and other similar completed annual program reports, can be downloaded from ASPAC's public web site at www.aspac-australasia.com.

Dr Roger Hill
Convenor, ASPAC-LPC

1 Rayment, G.E., Peverill, K.I., Hill, R.J., Daly, B.K., Ingram, C. and Marsh, J. (2007). ASPAC Soil Proficiency Testing Program Report 2004-05. (73 + vi pp.) ASPAC, Melbourne, Victoria.

2 Lyons, D.J., Rayment, G.E., Daly, B.K., Hill, R.J., Ingram, C. and Marsh, J. (2013). "ASPAC Plant Proficiency Testing Program Report 2008-09". (47 + vi pp.) ASPAC, Melbourne, Victoria.

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Those commissioned by GPL to prepare soil samples and confirm homogeneity prior to circulation for proficiency testing purposes [Department of Environment and Science (DES) Queensland, Australia] are acknowledged, as are operational staff of GPL.

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[A] ***Note:*** GPL, under its "SoilChek" logo, is accredited by IANZ (the New Zealand accreditation authority) to ISO/IEC 17043 standard, noting that IANZ is a full member of both the International Laboratory Accreditation Cooperation (ILAC), and Asia Pacific Laboratory Accreditation Cooperation (APLAC). GPL is also recognized by NATA (National Association of Testing Authorities of Australia) as a proficiency provider.

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1. Introduction

This not-for-profit, annual ASPAC Soil Proficiency Testing Program Report for 2022 documents program methodology, summary statistics, and a full listing of results by test for three "rounds" of soil chemical testing. For historical details on earlier annual soil ILPP's undertaken by ASPAC, refer to Rayment *et al*. (2007) referenced earlier in this report. These reports are also available for downloading from ASPAC's public website at *www.aspac-australasia.com.*

The report includes an outline of how ASPAC now 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, laboratories certified as proficient for specific tests in this annual program were documented at the time on ASPAC's public web site.

2. Program Details

2.1 Responsibilities

GPL- see page iv -under its "Soil Chek" arrangements, was contracted by ASPAC as the soil ILPP provider for 2022. 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.

ASPAC's LPC- see page iv- 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 occasional checks and audits for quality control purposes, participated in the earlier mentioned TAG, contributed to training workshops, and assisted (on request) laboratory managers with technical aspects on measurement improvement. As always, laboratory managers were encouraged to seek help from ASPAC when shown to be operating at levels of measurement performance below their peers.

Participants receive or have a unique, confidential laboratory number, subsequently used to identify the origin of each result presented in program reports and lists of results. This identification number has typically been carried forward from one annual program to the next, but code numbers changed in 2014-15 and beyond.

ASPAC's website manager and others updated the public web site with details on method-specific certifications and lists of laboratories that undertook those soil tests. The proficiency data used was supplied by GPL and oversighted by the Convener of the ASPAC-LPC.

2.2 Soil program participation

Some 67 laboratories submitted results for at least one soil test in 2022, 1 less than in 2021. Names and other summary contact details for the participants are provided in Appendix 1. There were 41 laboratories involved from Australia, 2 less than in 2021 (QLD=7; NSW=10; VIC=8; WA=10, SA=4; TAS=1; ACT=1) and 10 from New Zealand, 1 more than in 2021. There were 16 laboratories from the Pacific Islands, Europe and Asia, the same as 2021, including 3 each from Fiji and Philippines, 2 each from Papua New Guinea and Samoa, and 1 from Guam, Myanmar, New Caledonia, Spain, Thailand and United Arab Emirates.

The most reported results (see Table 2.1) across the three "rounds" combined were submitted for method 4A1 (average of 39 results for pH, 1:5 soil-water) followed by method 3A1 (average of 37 for electrical conductivity, 1:5 soil-water). The median was 17 laboratories for each certified method.

There were no additions this year to the list of certifiable test methods, however participants were invited to test and report other tests.

Table 2.1. Test methods, corresponding method codes and the arithmetic average number of results per round submitted by participating laboratories in the ASPAC 2022 soil ILPP.

Soil Tests - Certified	Method Codes[i]	Number of results submitted by participating laboratories		
		Mar 22	Jun 22	Sep 22
Air Dry Moisture (%)	2A1	30	31	30
Electrical conductivity 1:5 soil-water (dS/m)	3A1	38	38	36
Soil pH, 1:5 soil-water suspension (pH Units)	4A1 + 4A3	40	39	39
Soil pH, 1:5 0.01M CaCl2 – direct, air dry (pH Units)	4B1 + 4B3 + 4B2 + 4B4	32	31	30
Water Ext Cl (mg/kg)	5A1 + 5A2 + 5A3	23	25	23
Organic Carbon —W&B (%)	6A1	15	18	17
Total Carbon — Dumas (%)	6B2	29	28	28
Total Organic Carbon (%)	6B1 + 6B3	21	23	22
Total Nitrogen (%)	7A1 + 7A2 + 7A3	8	9	11
Total N – Dumas (%)	7A5	31	30	30
Water Soluble Nitrate N — autocolour (mg/kg)	7B1 + 7B2	15	16	13
KCl Extractable Nitrate N — autocolour (mg/kg)	7C2	22	21	22
KCl Extractable Ammonium N — autocolour (mg/kg)	7C2	26	27	26
Total P – oven dry (%)	Pooled	20	21	22
Colwell Extractable P – air dry (mg/kg)	9B1 + 9B2	26	24	23
Olsen Extractable P – air dry (mg/kg)	9C1 + 9C2	21	23	22
Bray-1 Extractable P – air dry (mg/kg)	9E1 + 9E2	10	12	10
Acid Extractable P – air dry (mg/kg)	9G1 + 9G2	13	14	12
Phosphorus buffer index (Colwell) – dry wt (L/kg)	9I2a + 9I2b + 9I2cii	16	18	17
Phosphorus buffer index (Unadjusted) – dry wt (L/kg)	9I4a + 9I4b + 9I4cii	12	12	11
Phosphate Extractable S – air dry (mg/kg)	10B1 + 10B2 + 10B3	10	10	9
KCl40 Extractable S (mg/kg)	10D1	13	12	12
DTPA Extractable Fe (mg/kg)	12A1	23	26	25
DTPA Extractable Cu (mg/kg)	12A1	23	26	25
DTPA Extractable Mn (mg/kg)	12A1	23	26	25
DTPA Extractable Zn (mg/kg)	12A1	23	26	25
CaCl2 Extractable B — manual colour, air dry (mg/kg)	12C1 + 12C2	19	19	18
Exchangeable Ca — 1M NH4Cl extract (cmol+/kg)	15A1	16	17	17
Exchangeable K — 1M NH4Cl extract (cmol+/kg)	15A1	16	17	17

Soil Tests - Certified	Method Codes[i]	Number of results submitted by participating laboratories		
		Mar 22	Jun 22	Sep 22
Exchangeable Mg — 1M NH4Cl extract (cmol+/kg)	15A1	16	17	17
Exchangeable Na — 1M NH4Cl extract (cmol+/kg)	15A1	15	16	17
Exchangeable Ca — 1M NH4OAc extract (cmol+/kg)	15D3	19	20	19
Exchangeable K — 1M NH4OAc extract (cmol+/kg)	15D3	19	20	19
Exchangeable Mg — 1M NH4OAc extract (cmol+/kg)	15D3	19	20	19
Exchangeable Na — 1M NH4OAc extract (cmol+/kg)	15D3	19	20	18
Exchangeable Al — 1M KCl extract (cmol+/kg)	15G1	16	15	13
Extractable K – Bicarbonate (mg/kg)	18A1	13	11	11
Total Organic Matter (%)	6G1	6	7	8
Extractable Al – Mehlich 3 (mg/kg)	18F1	17	17	15
Extractable B – Mehlich 3 (mg/kg)	18F1	16	15	14
Extractable Ca – Mehlich 3 (mg/kg)	18F1	16	16	15
Extractable Cu – Mehlich 3 (mg/kg)	18F1	18	18	17
Extractable Fe – Mehlich 3 (mg/kg)	18F1	18	18	17
Extractable K – Mehlich 3 (mg/kg)	18F1	16	16	15
Extractable Mg – Mehlich 3 (mg/kg)	18F1	16	16	16
Extractable Mn – Mehlich 3 (mg/kg)	18F1	18	18	17
Extractable Na – Mehlich 3 (mg/kg)	18F1	16	16	15
Extractable P - ICP – Mehlich 3 (mg/kg)	18F1	17	17	16
Extractable S – Mehlich 3 (mg/kg)	18F1	15	15	14
Extractable Zn – Mehlich 3 (mg/kg)	18F1	18	18	17

Soil Tests – Not Certified[ii]	Method Codes[i]	Number of results submitted by participating laboratories		
		Mar 22	Jun 22	Sep 22
Aqua Regia Aluminium (mg/kg)	17A2 + 17B1 + 17B2 + 17C1	15	16	14
Aqua Regia Arsenic (mg/kg)	17A2 + 17B1 + 17B2 + 17C1	13	14	14
Aqua Regia Boron (mg/kg)	17A2 + 17B1 + 17B2 + 17C1	13	13	13
Aqua Regia Calcium (mg/kg)	17A2 + 17B1 + 17B2 + 17C1	17	19	17
Aqua Regia Cadmium (mg/kg)	17A2 + 17B1 + 17B2 + 17C1	12	13	13
Aqua Regia Cobalt (mg/kg)	17A2 + 17B1 + 17B2 + 17C1	14	16	15
Aqua Regia Chromium (mg/kg)	17A2 + 17B1 + 17B2 + 17C1	15	17	15
Aqua Regia Copper (mg/kg)	17A2 + 17B1 + 17B2 + 17C1	17	19	17
Aqua Regia Iron (mg/kg)	17A2 + 17B1 + 17B2 + 17C1	16	18	16
Aqua Regia Potassium (mg/kg)	17A2 + 17B1 + 17B2 + 17C1	17	19	17
Aqua Regia Magnesium (mg/kg)	17A2 + 17B1 + 17B2 + 17C1	17	19	17
Aqua Regia Manganese (mg/kg)	17A2 + 17B1 + 17B2 + 17C1	17	19	17
Aqua Regia Molybdenum (mg/kg)	17A1 + 17B1 + 17B2 + 17C1	11	13	13
Aqua Regia Sodium (mg/kg)	17A1 + 17B1 + 17B2 + 17C1	16	18	16

Soil Tests – Not Certified[ii]	Method Codes[i]	Number of results submitted by participating laboratories		
		Mar 22	Jun 22	Sep 22
Aqua Regia Lead (mg/kg)	17A1 + 17B1 + 17B2 + 17C1	14	16	15
Aqua Regia Sulphur (mg/kg)	17A1 + 17B1 + 17B2 + 17C1	13	14	13
Aqua Regia Selenium (mg/kg)	17A1 + 17B1 + 17B2 + 17C1	8	8	9
Aqua Regia Silicon (mg/kg)	17A1 + 17B1 + 17B2 + 17C1	8	9	8
Aqua Regia Zinc (mg/kg)	17A1 + 17B1 + 17B2 + 17C1	17	19	17

Soil Tests – Not Assessable[iii]	Method Codes[i]	Number of results submitted by participating laboratories		
		Mar 22	Jun 22	Sep 22
Total Org C IR (%)	6B4a + 6B4b	3	5	6
Phosphorus Buffer Index (Olsen)	9I3a + 9I3b + 9I3c	4	4	5
Extractable Zinc	12D1	3	3	3
Extractable Silicon	13D1 + 13D2	4	6	4
Exchangeable Ca — 0.1M BaCl/0.1M NH4Cl (cmol+/kg)	15E1	3	3	3
Exchangeable K — 0.1M BaCl/0.1M NH4Cl (cmol+/kg)	15E1	3	3	3
Exchangeable Mg — 0.1M BaCl/0.1M NH4Cl (cmol+/kg)	15E1	3	3	3
Exchangeable Na — 0.1M BaCl/0.1M NH4Cl (cmol+/kg)	15E1	3	3	3

[i] Unless otherwise indicated, soil method codes are as defined by Rayment, G.E. and Lyons, D.J. (2011). *Soil Chemical Methods - Australasia*. CSIRO Publishing, Collingwood, Victoria, Australia.

[ii] NOT CERTIFIED table lists tests for which there were sufficient results reported for statistical analysis (>7) but are not yet part of the certification program.

[iii] NOT ASSESSABLE table lists tests for which there were insufficient results reported for statistical analysis (<7) and are not yet part of the certification program.

2.3 Tests and methods

The three proficiency "rounds" for soils, each comprised of four samples, were offered in March, June, and September 2022. Participants were invited to analyse each sample by the methods listed in Table 2.1. Participants were not required to submit results for all methods listed, noting that selected methods, including phosphate buffer index (Colwell) and phosphate buffer index (Olsen), were "scored" as one method each, irrespective of which analytical finish was used. This "pooling" also occurred for extractable P tests and some others, with details provided in Table 2.2. 'Pooling' test results are completed for tests which the LPC deem to be equivalent and should therefore yield the same results. The most common instance is where a common extraction may have different analytical finishes, e.g., atomic absorption spectroscopy (AAS) or inductively coupled plasma optical emission spectroscopy (ICP-OES). Grouping these tests together reduces the total number of tests and provides larger datasets for statistical analysis. Data summaries in Section 3 also indicate where there was method "pooling".

Participating laboratories were required by ASPAC to report all tests either air dry (40 ºC) or oven dry (105 ºC) soil-weight basis (not a soil-volume basis), as per the reporting guidelines published by Rayment and Lyons (2011). Indeed, routine soil fertility tests in Australia are mostly reported on an air-dry (40 ºC) soil-weight basis. Those

results reported on an oven-dry result in this report therefore required a final calculation using the air-dry moisture percentage included in the program as method-code 2A1.

Table 2.2. Method "pooling" summary for the ASPAC 2022 soil ILPP

Soil Tests	Method Codes	Number of results submitted by participating laboratories
Soil pH, 1:5 soil-water suspension (pH Units)	4A1 + 4A3	39
Soil pH, 1:5 0.01M $CaCl_2$ – direct, air dry (pH Units)	4B1 + 4B3 + 4B2 + 4B4	31
Water Ext Cl (mg/kg)	5A1 + 5A2 + 5A3	24
Total Organic Carbon (%)	6B1 + 6B3	28
Total Nitrogen (%)	7A1 + 7A2 + 7A3	9
Water Soluble Nitrate N — autocolour (mg/kg)	7B1 + 7B2	15
Total P – oven dry (%)	Pooled	21
Colwell Extractable P – air dry (mg/kg)	9B1 + 9B2	24
Olsen Extractable P – air dry (mg/kg)	9C1 + 9C2	22
Bray-1 Extractable P – air dry (mg/kg)	9E1 + 9E2	11
Acid Extractable P – air dry (mg/kg)	9G1 + 9G2	13
Phosphorus buffer index (Colwell) – dry wt (L/kg)	9I2a + 9I2b + 9I2c	17
Phosphorus buffer index (Unadjusted) – dry wt (L/kg)	9I4a + 9I4b + 9I4c	12
Phosphate Extractable S – air dry (mg/kg)	10B1 + 10B2 + 10B3	10
$CaCl_2$ Extractable B – manual colour, air dry (mg/kg)	12C1 + 12C2	19
Aqua Regia Metals	17A2 + 17B1 + 17B2 + 17C1	15

2.4 Sample preparation and identification

In common with practices since the 2004-05 soils program, potential samples were assessed for homogeneity by laboratories accredited to ISO/IEC 17025 standard. Specifically, 10 containers of each sample were selected at random and batched according to the principles described by Thompson and Wood (1993)[3]. These sub-samples were then tested in duplicate for Total N by Dumas Combustion.

Results from the homogeneity testing were subsequently statistically assessed according to ISO REMCO Protocol N231 "*Harmonised Proficiency Testing Protocol*" of January 1992. All prepared soils were rated as homogenous,

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

as demonstrated 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[4].

Prepared samples used in the three "rounds" of the 2022 program were distributed and coded as follows: March 2022 (Round 3) ASS 2203-1 to 2203-4; June 2022 (Round 6) ASS 2206-1 to 2206-4; and September 2022 (Round 9) ASS 2209-1 to 2209-4. The association between sample code and origin of the various soils is provided in Table 2.3.

Table 2.3. Sample identification and the origin of the samples included in the ASPAC 2022 soil ILPP

Sample ID	*Round ID*	*Sample Origin*	*Previous Rounds*
ASS 2203-1	**Round 3 20220314**	NSW	New
ASS 2203-2		SA	ASS2209-4
ASS 2203-3		QLD	New
ASS 2203-4		VIC	ASS2006-4
ASS 2206-1	**Round 6 20210607**	QLD	ASS2103-1
ASS 2206-2		NSW	ASS2103-2
ASS 2206-3		VIC	New
ASS 2206-4		NSW	New
ASS 2209-1	**Round 9 20210912**	NSW	ASS2009-1
ASS 2209-2		VIC	New
ASS 2209-3		NSW	New
ASS 2209-4		SA	ASS2203-2

2.5 Data analysis and periodic reporting

Laboratory results, after submission to the Service Provider, were entered into a database and double-checked for data transfer accuracy and required soil-moisture status prior to data processing.

The non-parametric assessment of laboratory performance for each sample and method (and/or "pooled" methods) was performed by an iterative statistical procedure like that used in the WEPAL inter-laboratory proficiency programs of Wageningen University. This procedure[5,6,7,8] is suited to datasets of as few as six to seven laboratories, although larger laboratory populations are preferred. An outline of the median / MAD statistical procedure is

[4] 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.

[5] 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.

[6] 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.

[7] 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.

[8] 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.)

provided in Appendix 3, with terms described in Table 2.4. In addition to medians and MADs, other statistical parameters (also described in Table 2.4) 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.

Results submitted by each laboratory were expected to reflect the procedural and reporting guidelines in the chapter on that topic in Rayment and Lyons (2011). 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 halfway between that value and zero. For high values, dilution was the option.

Interim "round" reports, summarizing 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 laboratory 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 data-transfer and data-processing misinterpretations. In addition, regular Newsletters from the Service Provider went to participating laboratories, adding to the information provided in ASPAC's own Newsletter to its members (the *ASPAC Digest*).

Laboratories that participated in the 2022 soil ILPP each received from the Service Provider (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 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 twelve samples across three sequential "rounds", typically over the twelve-month period, ASPAC awards participating laboratories with a printed, signed, and dated *Certificate of Proficiency.* The *Certificate of Proficiency* identifies performance for each test that met criteria set in advance by ASPAC. Certification for a given test (not laboratory accreditation) applies when a laboratory incurs no more than four demerit points for the 12 samples in the program year.

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

For any single "round" of four samples, three (3) is set as the maximum number of demerit points for a specific test. This is done so that unsatisfactory measurement of a test in one "round" does not in itself result in failure to be certified for that test across the three rounds in the designated 12-month period.

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

If less than seven laboratories submit results for a particular test or sample (including for "pooled" tests), proficiency assessments cannot be made statistically with an acceptable level of confidence and certification for the specific test may not be granted.

ASPAC's *Certificates of Proficiency* are only issued on completion of each annual program of three rounds. ASPAC currently provides details of certified laboratories by test on its public website. Certifications obtained in the 2022 Soil program remained valid until superseded by findings from the next annual soil program.

Table 2.4. 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. Moreover, these differences exist within and across statistical software packages. Prior to the 2004-05 rounds, ASPAC used the algorithm employed by EXCEL and some others. For this program, the algorithm employed was that of SAS Method 4[9]. In summary, IQR = Q_3-Q_1.
Normalized IQR	This equates to IQR x 0.7413, where the latter is a normalizing factor.
Robust % CV[10]	The robust coefficient of variation (Robust % CV) = (100 x normalized 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.
Integer "i" and the letter "f" associated with medians, means, MADs, IQR and Robust %CVs in data summaries.	The integer "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.

9 SAS Procedure Guide.

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

3. Summary Statistics

This section provides summary data and associated statistics (values sometimes rounded for table formatting purposes) on all tests (plus key "pooled" combinations) for each of the 12 samples used across three soil "rounds" in 2022. The tabulations include initial and subsequent values for the iterative "median / MAD" procedure plus other parametric and robust statistics. Table 2.4 and Appendix 3 have the meaning or derivation of the terms and statistics used in the tabulated summaries.

2022: Air-Dry Moisture Content 2A1 (%)

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	30	30	30	30	31	31	31	31	30	30	30	30
Minimum	1.83	2.35	4.44	1.02	2.6	3.3	0.6	1.2	0.777	1.13	1.16	1.74
Maximum	3.2	4	6.3	1.9	5.3	8.63	5.9	2.1	5.02	8.35	7	5.98
Median i	2.31	3	5.5	1.35	4.6	7.57	1.08	1.65	1.14	1.5	6.09	3.33
Mean i	2.33	3.01	5.48	1.37	4.57	7.56	1.21	1.65	1.25	1.74	5.94	3.3
MAD i	0.18	0.19	0.29	0.12	0.22	0.35	0.13	0.14	0.125	0.1	0.49	0.26
IQR i	0.358	0.355	0.545	0.253	0.44	0.65	0.29	0.265	0.253	0.215	0.973	0.435
Robust CV % i	11	9	7	14	7	6	20	12	16	11	12	10
Median f	2.3	3	5.5	1.33	4.65	7.65	1.08	1.65	1.12	1.49	6.25	3.33
Mean f	2.29	2.99	5.51	1.33	4.63	7.7	1.07	1.65	1.1	1.49	6.2	3.26
MAD f	0.19	0.175	0.29	0.1	0.21	0.295	0.13	0.14	0.12	0.085	0.475	0.24
IQR f	0.32	0.345	0.49	0.18	0.425	0.658	0.28	0.265	0.25	0.168	0.96	0.425
Robust CV % f	10	9	7	10	7	6	19	12	17	8	11	9
Outliers	1	2	1	2	1	1	2	0	2	4	2	2
Stragglers	0	0	0	0	0	0	0	0	0	2	0	0

2022: Electrical Conductivity 1:5 soil-water (3A1) dS/m

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	38	38	38	38	38	37	38	38	36	36	36	36
Minimum	0.127	0.196	0.0753	0.078	0.222	0.195	0.192	0.043	0.036	0.038	0.29	0.229
Maximum	0.209	0.296	0.218	0.46	0.84	0.44	0.68	0.13	0.485	9.45	4.11	2.52
Median i	0.173	0.252	0.084	0.138	0.412	0.231	0.341	0.0677	0.042	1	0.409	0.255
Mean i	0.174	0.253	0.0895	0.146	0.414	0.244	0.349	0.0691	0.0604	1.21	0.537	0.325
MAD i	0.0065	0.011	0.004	0.008	0.017	0.011	0.011	0.00235	0.002	0.0365	0.0185	0.0065
IQR i	0.0128	0.0183	0.00885	0.0153	0.0353	0.023	0.0215	0.004	0.00433	0.0753	0.0373	0.014
Robust CV % i	5	5	8	8	6	7	5	4	8	6	7	4
Median f	0.173	0.252	0.084	0.137	0.413	0.227	0.34	0.0676	0.0417	0.981	0.405	0.254
Mean f	0.173	0.254	0.0846	0.136	0.413	0.229	0.341	0.0678	0.0414	0.988	0.405	0.253
MAD f	0.006	0.0065	0.004	0.006	0.008	0.007	0.0095	0.0024	0.0017	0.033	0.012	0.006
IQR f	0.011	0.0143	0.00808	0.012	0.0145	0.0138	0.018	0.004	0.00283	0.0655	0.0225	0.01
Robust CV % f	5	4	7	6	3	4	4	4	5	5	4	3
Outliers	7	5	4	5	7	6	4	5	5	4	8	7
Stragglers	0	3	0	0	5	3	0	0	1	1	1	0

2022: Soil pH, 1:5 soil-water (4A1 + 4A3) pH Units

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	40	40	40	40	39	39	39	39	39	39	39	39
Minimum	4.1	5.51	5.66	3.58	4.74	6.34	6.24	4.43	5.82	6.4	7.29	7.22
Maximum	5.3	8.33	6.94	4.78	8	8.46	7.5	6.39	8.6	8.1	8.85	8.5
Median i	4.87	8.2	6.28	4.6	5.81	8.2	7.3	4.88	6.34	7.45	8.15	8.2
Mean i	4.84	8.09	6.27	4.55	5.9	8.09	7.22	4.93	6.39	7.42	8.1	8.16
MAD i	0.065	0.08	0.09	0.065	0.06	0.1	0.05	0.09	0.11	0.05	0.06	0.04
IQR i	0.125	0.125	0.173	0.133	0.125	0.205	0.08	0.195	0.21	0.12	0.115	0.08
Robust CV % i	2	1	2	2	2	2	1	3	2	1	1	1
Median f	4.9	8.2	6.28	4.62	5.8	8.24	7.3	4.88	6.32	7.46	8.16	8.2
Mean f	4.89	8.2	6.28	4.62	5.81	8.25	7.3	4.89	6.33	7.44	8.14	8.2
MAD f	0.06	0.07	0.08	0.05	0.05	0.065	0.03	0.08	0.1	0.055	0.055	0.025
IQR f	0.11	0.135	0.158	0.07	0.0925	0.12	0.055	0.185	0.19	0.105	0.108	0.0475
Robust CV % f	2	1	2	1	1	1	1	3	2	1	1	0
Outliers	6	5	5	5	6	4	7	4	3	3	4	6
Stragglers	1	0	1	2	1	3	1	0	1	0	1	3

2022: Soil pH, 1:5 0.01M $CaCl_2$ (4B1 + 4B2 + 4B3 + 4B4) pH Units

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	32	32	32	32	31	31	31	31	30	30	30	30
Minimum	3.92	6.28	5.41	3.47	4.6	7.4	6.6	3.99	5.17	6.8	7.2	7.5
Maximum	4.77	7.89	5.95	4.38	5.35	7.85	6.91	4.3	6.65	7.23	7.63	7.85
Median i	4.4	7.67	5.63	4	4.77	7.67	6.74	4.09	5.39	7.02	7.39	7.7
Mean i	4.39	7.61	5.65	3.98	4.82	7.66	6.73	4.1	5.42	7.02	7.39	7.69
MAD i	0.065	0.095	0.05	0.05	0.07	0.08	0.04	0.05	0.075	0.06	0.04	0.065
IQR i	0.133	0.213	0.11	0.115	0.185	0.17	0.08	0.11	0.14	0.115	0.0775	0.13
Robust CV % i	2	2	1	2	3	2	1	2	2	1	1	1
Median f	4.41	7.67	5.62	4	4.76	7.68	6.74	4.09	5.37	7.02	7.38	7.7
Mean f	4.41	7.66	5.63	4	4.76	7.67	6.73	4.09	5.37	7.02	7.38	7.69
MAD f	0.055	0.09	0.03	0.05	0.05	0.08	0.04	0.05	0.07	0.05	0.025	0.065
IQR f	0.11	0.195	0.07	0.085	0.105	0.158	0.075	0.09	0.13	0.095	0.0475	0.13
Robust CV % f	2	2	1	2	2	2	1	2	2	1	0	1
Outliers	4	1	4	4	3	1	4	2	2	2	4	0
Stragglers	0	0	1	0	1	0	0	0	0	1	4	0

2022: Water Ext Cl (5A1 + 5A2 + 5A3) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	23	23	20	23	25	25	25	24	22	22	23	23
Minimum	7.69	7	2.5	6.19	279	2.8	137	1.6	5	410	58.6	8
Maximum	259	142	97.8	49	1140	87.2	340	64.3	25.3	653	112	28.8
Median i	15	13.2	6.51	17.5	465	10.8	184	9.35	9.56	500	87.6	14.6
Mean i	26.1	21	14.6	19	486	15	194	13.9	11.4	512	88.8	16.3
MAD i	3.2	4.2	2.73	4.1	29	1.8	9	3.55	1.96	23.5	6.3	3.8
IQR i	6.1	8.45	7.28	7.2	51	3.34	18	11.1	3.58	41.3	14.3	8.7
Robust CV % i	30	47	83	30	8	23	7	88	28	6	12	44
Median f	14	12.6	5.2	16	465	10.5	183	8.17	9.07	496	87	14.2
Mean f	14.2	13.7	6.55	16.7	464	10.3	184	8.4	8.91	503	86.9	15.2
MAD f	2.25	4.07	1.32	3.6	20	1.2	5	1.55	1.03	7	5	3.7
IQR f	4.4	6.93	3.83	7	41.5	2.52	9.25	2.96	2.08	29.5	8.85	6.9
Robust CV % f	23	41	55	32	7	18	4	27	17	4	8	36
Outliers	3	3	2	2	5	6	5	4	4	3	4	2
Stragglers	0	0	2	0	1	0	2	2	2	3	0	0

2022: Organic Carbon — W&B (6A1) %

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	15	15	15	15	17	18	18	18	17	17	17	17
Minimum	1.95	1.16	1.29	3.61	0.1	0.912	1.57	0.57	0.305	2.91	1	0.968
Maximum	2.9	2.21	2.08	5.1	1.04	1.79	2.79	1.67	23.1	4.24	1.6	1.6
Median i	2.16	1.35	1.5	3.94	0.144	1.08	1.9	0.782	0.473	3.38	1.35	1.35
Mean i	2.21	1.41	1.54	4.1	0.212	1.12	1.94	0.843	1.79	3.42	1.34	1.35
MAD i	0.11	0.08	0.1	0.18	0.025	0.09	0.09	0.064	0.043	0.28	0.09	0.07
IQR i	0.185	0.17	0.225	0.485	0.069	0.173	0.203	0.14	0.085	0.42	0.18	0.12
Robust CV % i	6	9	11	9	36	12	8	13	13	9	10	7
Median f	2.16	1.34	1.49	3.85	0.137	1.07	1.9	0.769	0.472	3.38	1.38	1.37
Mean f	2.16	1.35	1.5	3.84	0.143	1.09	1.92	0.781	0.459	3.42	1.36	1.37
MAD f	0.105	0.085	0.095	0.09	0.02	0.08	0.085	0.0505	0.0285	0.28	0.095	0.08
IQR f	0.183	0.165	0.183	0.19	0.0465	0.15	0.168	0.117	0.0688	0.42	0.168	0.135
Robust CV % f	6	9	9	4	25	10	7	11	11	9	9	7
Outliers	1	1	1	3	2	1	1	1	2	0	1	1
Stragglers	0	0	0	1	1	0	1	1	1	0	0	0

2022: Total Carbon — Dumas (6B2) %

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	29	29	29	29	28	28	29	28	28	28	28	28
Minimum	2.21	1.72	1.6	3.83	0.1	1.49	1.87	0.82	0.4	3.41	1.23	2.03
Maximum	2.66	2.52	2.08	4.9	0.27	1.8	2.52	1.13	0.525	4.85	1.76	2.59
Median i	2.4	2.32	1.85	4.21	0.174	1.67	2.11	0.939	0.454	3.77	1.54	2.32
Mean i	2.4	2.28	1.83	4.25	0.179	1.65	2.12	0.938	0.462	3.88	1.53	2.31
MAD i	0.05	0.1	0.06	0.13	0.0195	0.05	0.09	0.0265	0.0225	0.17	0.06	0.035
IQR i	0.09	0.19	0.12	0.28	0.0363	0.11	0.17	0.05	0.0538	0.375	0.113	0.0675
Robust CV % i	3	6	5	5	15	5	6	4	9	7	5	2
Median f	2.4	2.32	1.85	4.18	0.173	1.67	2.1	0.939	0.454	3.73	1.54	2.32
Mean f	2.4	2.3	1.84	4.2	0.175	1.65	2.09	0.94	0.462	3.79	1.54	2.32
MAD f	0.045	0.1	0.04	0.105	0.018	0.05	0.08	0.021	0.0225	0.14	0.05	0.02
IQR f	0.0875	0.188	0.11	0.213	0.032	0.105	0.17	0.038	0.0538	0.29	0.11	0.04
Robust CV % f	3	6	4	4	14	5	6	3	9	6	5	1
Outliers	3	1	2	3	3	1	1	3	0	3	2	7
Stragglers	0	0	2	0	0	0	1	2	0	0	1	4

2022: Total Organic Carbon (6B1 + 6B3) %

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	21	21	21	21	22	23	23	23	21	22	22	22
Minimum	1.92	1.26	1.49	3.7	0.112	0.94	1.62	0.74	0.246	1.92	1.11	0.951
Maximum	2.53	2.02	1.92	4.69	0.27	1.58	2.52	1.12	0.525	4.05	1.69	2.11
Median i	2.37	1.41	1.77	4.13	0.162	1.28	2.06	0.902	0.46	3.59	1.52	1.43
Mean i	2.33	1.46	1.75	4.18	0.174	1.26	2.05	0.898	0.453	3.5	1.51	1.46
MAD i	0.08	0.09	0.1	0.2	0.011	0.07	0.11	0.036	0.02	0.1	0.07	0.06
IQR i	0.24	0.11	0.21	0.36	0.0313	0.13	0.22	0.073	0.04	0.183	0.145	0.125
Robust CV % i	8	6	9	6	14	8	8	6	6	4	7	7
Median f	2.37	1.41	1.77	4.13	0.161	1.28	2.06	0.902	0.46	3.59	1.52	1.41
Mean f	2.37	1.42	1.75	4.18	0.162	1.27	2.05	0.894	0.463	3.57	1.53	1.43
MAD f	0.08	0.08	0.1	0.2	0.006	0.065	0.11	0.034	0.02	0.065	0.07	0.04
IQR f	0.135	0.125	0.21	0.36	0.0128	0.11	0.21	0.062	0.041	0.13	0.13	0.113
Robust CV % f	4	7	9	6	6	6	8	5	7	3	6	6
Outliers	2	1	0	0	6	3	2	2	1	6	1	3
Stragglers	0	1	0	0	2	0	0	0	0	0	0	1

2022: Total N (7A1 + 7A2 + 7A3) %

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	8	8	8	8	9	9	9	9	11	11	11	11
Minimum	0.18	0.11	0.13	0.18	0.018	0.063	0.098	0.06	0.038	0.113	0.114	0.112
Maximum	0.245	0.148	0.185	0.247	0.036	0.13	0.149	0.088	0.111	0.26	0.164	0.206
Median i	0.215	0.142	0.178	0.216	0.031	0.105	0.123	0.074	0.045	0.228	0.125	0.145
Mean i	0.216	0.138	0.168	0.216	0.028	0.101	0.128	0.0724	0.0547	0.224	0.128	0.144
MAD i	0.013	0.003	0.005	0.0085	0.005	0.009	0.01	0.008	0.005	0.012	0.006	0.008
IQR i	0.0223	0.006	0.0203	0.0153	0.008	0.014	0.027	0.011	0.0135	0.0235	0.013	0.018
Robust CV % i	8	3	8	5	19	10	16	11	22	8	8	9
Median f	0.215	0.144	0.179	0.216	0.031	0.106	0.123	0.074	0.0425	0.234	0.123	0.145
Mean f	0.216	0.142	0.18	0.216	0.028	0.106	0.128	0.0724	0.0433	0.235	0.124	0.14
MAD f	0.013	0.004	0.001	0.0085	0.005	0.009	0.01	0.008	0.0025	0.013	0.0075	0.008
IQR f	0.0223	0.005	0.002	0.0153	0.008	0.015	0.027	0.011	0.00475	0.0228	0.0118	0.017
Robust CV % f	8	3	1	5	19	10	16	11	8	7	7	9
Outliers	0	1	1	0	0	1	0	0	2	1	1	2
Stragglers	0	0	2	0	0	0	0	0	1	0	0	0

2022: Total N – Dumas (7A5) %

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	31	31	31	31	30	30	30	30	30	30	30	30
Minimum	0.19	0.101	0.114	0.167	0.004	0.078	0.095	0.053	0.037	0.207	0.095	0.11
Maximum	0.275	0.18	0.211	0.268	0.05	0.129	0.171	0.1	0.0756	0.295	0.157	0.165
Median i	0.225	0.145	0.176	0.222	0.031	0.108	0.134	0.0764	0.0444	0.243	0.129	0.144
Mean i	0.224	0.143	0.176	0.221	0.0311	0.109	0.136	0.0782	0.0462	0.242	0.128	0.143
MAD i	0.009	0.008	0.01	0.008	0.004	0.0035	0.009	0.00735	0.004	0.0115	0.0055	0.006
IQR i	0.018	0.0145	0.0185	0.02	0.0085	0.00925	0.0175	0.0158	0.00775	0.0253	0.01	0.0118
Robust CV % i	6	7	8	7	20	6	10	15	13	8	6	6
Median f	0.225	0.146	0.176	0.222	0.031	0.107	0.134	0.0764	0.044	0.24	0.129	0.144
Mean f	0.224	0.146	0.176	0.22	0.0314	0.107	0.136	0.0782	0.0439	0.235	0.129	0.145
MAD f	0.009	0.007	0.009	0.008	0.004	0.002	0.009	0.00735	0.003	0.0105	0.005	0.006
IQR f	0.016	0.0125	0.017	0.0165	0.0075	0.003	0.0165	0.0158	0.006	0.0245	0.009	0.0105
Robust CV % f	5	6	7	6	18	2	9	15	10	8	5	5
Outliers	2	3	2	5	2	9	2	0	2	3	4	3
Stragglers	0	1	0	0	0	2	0	0	1	1	1	0

2022: Water Soluble Nitrate N – autocolour (7B1 + 7B2) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	15	15	15	15	16	16	15	16	13	9	13	13
Minimum	29.5	0.2	4	0.1	1.05	0.5	1.38	7	2.77	0.146	40.9	11.9
Maximum	65	37	19	14	36	38	29	16	9.23	2.62	56.7	15
Median i	59.5	13.8	8	5.09	1.55	3.09	3.29	8.99	4.5	0.547	46.6	13.9
Mean i	56.3	14.6	8.5	5.19	4.95	5.14	5.22	9.35	4.87	0.835	46.7	13.7
MAD i	2.4	0.6	0.51	0.69	0.295	0.185	0.48	0.65	0.14	0.353	2.4	0.7
IQR i	6.8	1.45	0.98	1.35	0.73	0.395	1.01	1.23	0.6	0.746	3.9	0.9
Robust CV % i	8	8	9	20	35	9	23	10	10	101	6	5
Median f	60.7	13.8	8	5.35	1.5	3.09	3	8.91	4.5	0.27	46.1	13.9
Mean f	59.9	14	8.09	5.18	1.49	3.12	3.15	8.91	4.45	0.474	45.8	13.7
MAD f	1.2	0.6	0.3	0.745	0.14	0.175	0.24	0.59	0.065	0.124	1.8	0.7
IQR f	2.85	1.1	0.63	1.17	0.278	0.308	0.37	1.15	0.118	0.497	2.65	0.9
Robust CV % f	3	6	6	16	14	7	9	10	2	136	4	5
Outliers	2	2	4	3	2	2	3	1	4	1	1	0
Stragglers	2	0	0	0	2	0	3	0	1	1	0	0

2022: KCl Extractable Nitrate N — autocolour (7C2) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	22	22	22	22	20	21	21	21	20	20	21	21
Minimum	51.1	10.7	5.61	2.8	0.689	1.8	1.56	6.56	4	0.001	40	9.53
Maximum	67.2	16.7	10.3	9.87	2.62	3.57	4.47	10.5	7.92	1.24	83.1	23.4
Median i	59.3	13.5	7.75	5.42	1.48	2.94	3.42	9.1	4.49	0.285	44.4	13.7
Mean i	59.1	13.6	7.85	5.54	1.51	2.94	3.37	8.96	4.7	0.414	47.4	14
MAD i	1.5	0.55	0.4	0.63	0.1	0.24	0.27	0.41	0.345	0.254	1.4	0.3
IQR i	2.53	1.1	0.765	1.14	0.17	0.45	0.53	0.81	0.603	0.568	3.9	0.6
Robust CV % i	3	6	7	16	9	11	11	7	10	148	7	3
Median f	59	13.5	7.8	5.42	1.43	3.11	3.49	9.21	4.4	0.27	43.8	13.7
Mean f	58.9	13.5	7.91	5.42	1.42	3.06	3.47	9.2	4.4	0.371	44.2	13.7
MAD f	1.1	0.4	0.34	0.335	0.08	0.22	0.25	0.36	0.22	0.247	1	0.35
IQR f	2.4	0.7	0.635	0.615	0.135	0.38	0.508	0.69	0.42	0.462	2.4	0.6
Robust CV % f	3	4	6	8	7	9	11	6	7	127	4	3
Outliers	2	4	2	3	3	2	3	2	2	1	3	5
Stragglers	1	1	1	1	2	0	0	0	1	0	1	0

2022: KCl Extractable Ammonium N — autocolour (7C2) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	25	26	26	25	26	27	27	27	26	26	26	26
Minimum	12.4	25.9	19.2	20.1	2.72	0.81	13.5	0.92	0.3	38.8	1.6	9.6
Maximum	21.8	73.7	44.5	36.1	8.72	12.4	34.8	17.7	4.7	149	31.2	111
Median i	19.1	57.1	27.4	31.1	3.7	9.5	28.8	7.5	2.11	73.3	15.8	57.1
Mean i	19.1	54.9	27.2	30.6	3.89	9.23	27.8	8.17	2.2	72.3	15.5	56.3
MAD i	1.1	3.6	1.8	1.5	0.27	0.79	2.1	0.53	0.3	2.65	1.45	2.8
IQR i	2.2	7.38	3.65	3.5	0.485	1.47	3.7	1.35	0.585	7.63	2.75	5.13
Robust CV % i	9	10	10	8	10	11	10	13	21	8	13	7
Median f	19.3	57.1	27.4	31.2	3.7	9.54	29	7.45	2.06	74.3	16.3	57.3
Mean f	19.3	55.4	27.4	31.1	3.73	9.6	29.2	7.45	2.1	74.4	16	57.3
MAD f	1.1	2.75	1.55	1.45	0.19	0.56	2	0.35	0.17	1.7	1.25	1.6
IQR f	2	6.85	2.78	3.38	0.35	1.03	3.18	0.535	0.3	3.03	2.48	2.98
Robust CV % f	8	9	8	8	7	8	8	5	11	3	11	4
Outliers	1	4	4	1	4	3	3	7	5	7	4	3
Stragglers	0	0	0	0	2	2	0	0	2	1	0	3

2022: Total P – all methods %

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	20	20	20	20	21	21	21	21	22	22	22	22
Minimum	0.0846	0.04	0.0985	0.0102	0.00616	0.0143	0.0171	0.034	0.0109	0.036	0.0124	0.0441
Maximum	0.45	0.51	0.29	0.18	0.015	0.0261	0.0254	0.0495	0.0174	0.0581	0.0363	0.0683
Median i	0.104	0.051	0.138	0.0134	0.0098	0.018	0.0217	0.0416	0.014	0.0428	0.0174	0.0507
Mean i	0.118	0.0787	0.142	0.0217	0.00968	0.0189	0.0214	0.0418	0.0141	0.0438	0.0191	0.0528
MAD i	0.00825	0.00575	0.021	0.0009	0.0025	0.0011	0.0012	0.0024	0.00075	0.0026	0.00125	0.00235
IQR i	0.0122	0.0126	0.0363	0.00215	0.00416	0.0045	0.0019	0.0044	0.00148	0.0045	0.00423	0.00773
Robust CV % i	9	18	19	12	31	19	6	8	8	8	18	11
Median f	0.103	0.0502	0.138	0.0134	0.0098	0.017	0.0217	0.0416	0.0139	0.0427	0.0171	0.05
Mean f	0.101	0.0508	0.134	0.0136	0.00968	0.0171	0.0214	0.0418	0.0136	0.0421	0.0172	0.0502
MAD f	0.008	0.00555	0.021	0.0005	0.0025	0.00075	0.0008	0.0024	0.0006	0.002	0.0006	0.0013
IQR f	0.0119	0.0105	0.0335	0.00105	0.00416	0.000975	0.0017	0.0044	0.0013	0.00345	0.00105	0.00265
Robust CV % f	9	15	18	6	31	4	6	8	7	6	5	4
Outliers	1	2	1	1	0	4	1	0	5	3	4	2
Stragglers	0	0	0	3	0	3	1	0	0	0	3	5

2022: Colwell Extractable P (9B1 + 9B2) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	26	26	26	26	24	24	24	24	23	23	23	23
Minimum	32	31.4	35.6	19.7	0.56	0.21	32.7	30.9	6.31	96	5.68	31
Maximum	91	93	88	48	12	12	57	65.5	22.9	171	46.6	80.6
Median i	55.2	49.9	54.3	30.3	5.89	4.91	45.9	51.6	9.48	135	11	48.5
Mean i	55.4	50.7	54.5	30.5	6.35	5.06	44.9	50.8	10.2	133	13.2	50.3
MAD i	6.35	4.6	4.55	3.05	0.59	0.56	2.55	3.7	1.48	5	2	4.3
IQR i	10.5	8.38	8.45	6.28	1.55	0.995	4.55	7.23	2.55	10	3.95	8.5
Robust CV % i	14	12	12	15	20	15	7	10	20	5	27	13
Median f	54.7	50.6	54.8	30.3	5.77	4.82	45.9	52.5	9.24	136	10.1	48.4
Mean f	54.1	51.3	54.3	30.2	5.76	4.93	45.8	53	9.06	135	10.3	48.6
MAD f	4.4	3.9	3.8	2.85	0.47	0.34	1.1	2.7	1.15	3	1.2	3.35
IQR f	8.9	6.5	5.5	5.43	0.838	0.53	1.7	5.2	2.15	6	2.68	6.45
Robust CV % f	12	10	7	13	11	8	3	7	17	3	20	10
Outliers	2	4	3	2	6	7	5	3	2	5	3	3
Stragglers	1	0	4	0	0	0	4	4	1	1	1	0

2022: Olsen Extractable P (9C1 + 9C2) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	21	21	21	21	23	23	23	23	22	22	22	22
Minimum	10.8	11.4	11.1	15.7	0.55	0.31	14.7	0.553	1.34	1.22	3.6	13.1
Maximum	26.2	33.4	27.6	38.6	17.4	18	27.8	23.5	6.17	92.3	16.3	35.6
Median i	13.6	17.7	14.7	20.4	1.55	1.68	18.3	17.5	3.51	52.3	4.79	17.5
Mean i	14.3	18.1	15.2	20.9	2.19	2.37	18.7	17	3.64	53.4	5.66	18.1
MAD i	0.9	1.6	1.2	1.6	0.27	0.29	1.6	1.7	0.445	3.35	0.915	1.1
IQR i	1.6	3.1	1.8	2.9	0.515	0.535	2.75	2.7	1.03	7.53	1.77	1.8
Robust CV % i	9	13	9	11	25	24	11	11	22	11	27	8
Median f	13.4	17.7	14.6	20.4	1.55	1.68	18.2	17.5	3.5	51.6	4.74	17.5
Mean f	13.3	17.7	14.6	20	1.54	1.72	18.1	17.5	3.51	53.1	4.9	17.4
MAD f	0.8	1.5	1	1.45	0.25	0.28	1.2	1.5	0.42	2.1	0.875	0.35
IQR f	1.25	2.85	1.7	2.03	0.49	0.51	2.5	2	0.78	5.9	1.46	0.65
Robust CV % f	7	12	9	7	23	23	10	8	17	8	23	3
Outliers	3	2	1	1	2	2	1	2	3	5	2	3
Stragglers	0	0	0	0	0	0	1	0	0	0	0	7

2022: Bray-1 Extractable P (9E1 + 9E2) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	10	10	10	10	12	12	12	12	9	10	10	10
Minimum	3.5	6.3	4.2	9.7	1.52	0.2	29	13.2	2.6	59.7	2.39	2.62
Maximum	14.1	39.3	12.1	27.1	7	5.35	47.1	28.7	4.52	122	5.28	20.9
Median i	5.95	15.7	6.16	19.4	3.56	0.804	36.4	20.3	3.96	97.4	3.87	15.8
Mean i	6.74	17.8	6.49	19.6	3.43	1.47	37.7	21.1	3.74	92.8	3.9	13.8
MAD i	1.72	5.65	0.62	2.75	0.545	0.394	3.45	1.65	0.43	20.4	0.425	4.65
IQR i	3.17	10.5	1.27	5.03	1.4	1.2	7.48	3.33	1.22	35.2	0.748	8.33
Robust CV % i	40	50	15	19	29	111	15	12	23	27	14	39
Median f	5.9	15.7	5.71	19.4	3.56	0.537	36.4	20.3	3.96	97.4	3.87	15.8
Mean f	5.92	17.8	5.86	19.6	3.27	0.664	37.7	21.1	3.74	92.8	3.9	13.8
MAD f	1.57	5.65	0.89	2.75	0.385	0.261	3.45	1.3	0.43	20.4	0.425	4.65
IQR f	2.85	10.5	1.24	5.03	1.3	0.33	7.48	2.78	1.22	35.2	0.748	8.33
Robust CV % f	36	50	16	19	27	46	15	10	23	27	14	39
Outliers	1	0	1	0	1	3	0	2	0	0	0	0
Stragglers	0	0	0	0	1	0	0	0	0	0	0	0

2022: Acid Extractable P (9G1 + 9G2) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	13	13	13	13	14	14	14	14	12	12	12	12
Minimum	5	127	17	26	5.5	0.6	82.6	29	6.8	262	10	120
Maximum	33.7	1400	88.2	60	36.5	144	144	76.5	15.1	359	19.4	446
Median i	18.8	361	44	32.2	8.3	4.79	91	42.4	11	301	12.5	366
Mean i	18.3	414	44.8	34.9	10.2	14.4	95.1	44.3	10.9	301	13.4	326
MAD i	3.2	33	6.9	4.2	1.88	2.29	2.85	5.45	1.55	24	2.25	31
IQR i	6.5	61	8.6	8.2	3.54	4.05	5.98	10.5	2.65	45.3	4.3	49.5
Robust CV % i	26	13	14	19	32	63	5	18	18	11	26	10
Median f	18.8	366	44	30.4	8.1	4.58	90	42.3	11	301	12.5	370
Mean f	18	365	43.2	31.4	8.21	4.46	89.6	41.8	10.9	301	13.4	367
MAD f	3	23.5	1	2.8	1.7	1.93	1.8	5.2	1.55	24	2.25	19.5
IQR f	4.3	42	1.55	6.25	3.38	4.06	3.5	9.9	2.65	45.3	4.3	33
Robust CV % f	17	9	3	15	31	66	3	17	18	11	26	7
Outliers	4	3	2	1	1	1	1	1	0	0	0	2
Stragglers	0	0	4	1	0	0	2	0	0	0	0	0

2022: Phosphorus buffer index – Colwell (9I2a + 9I2b + 9I2c) L/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	16	16	16	16	18	18	18	18	17	17	17	17
Minimum	306	19.8	198	39.5	32.2	191	51.8	89.5	25.9	54.5	96.4	78.6
Maximum	420	146	262	58.6	72	307	81	134	47	86.1	120	102
Median i	350	98.2	233	50.4	43.6	218	60.6	98.6	39.2	74.7	107	93.5
Mean i	350	95.6	232	51	44.4	222	61.4	99	39.1	73.6	107	92.8
MAD i	13	8	11.5	3.05	2.25	8.5	3.4	4.5	4	6.8	5	3.5
IQR i	26	14.2	21.3	8.08	4.28	15.3	6.4	9.65	7.5	13.3	10	7
Robust CV % i	6	11	7	12	7	5	8	7	14	13	7	6
Median f	346	98.2	233	50.4	43.6	217	60.3	97.7	39.2	74.7	107	93.8
Mean f	341	97.5	232	51	43.4	217	59.4	95.9	39.1	73.6	107	93.7
MAD f	11.5	6.3	11.5	3.05	2	7	3.1	4	4	6.8	5	3.5
IQR f	29	12.1	21.3	8.08	3.83	13.5	5.75	8.78	7.5	13.3	10	5.25
Robust CV % f	6	9	7	12	7	5	7	7	14	13	7	4
Outliers	2	2	0	0	2	1	2	1	0	0	0	1
Stragglers	0	0	0	0	0	2	0	1	0	0	0	0

2022: Phosphorus buffer index – Unadjusted (9I4a + 9I4b + 9I4c) L/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	12	12	12	12	12	12	12	12	11	11	11	11
Minimum	288	71.6	184	38	31.4	190	45.9	79.5	23.8	36.4	98	75.5
Maximum	387	136	243	52.3	47	246	65	103	45.3	61	119	93
Median i	315	85.5	207	44.5	41.7	215	52	88.7	37.4	50	105	83.4
Mean i	324	88.2	208	44.7	41.3	217	52.3	88.5	37.1	50.9	106	82.8
MAD i	19	9	6.5	4.9	3.05	5	2.5	2.3	5.3	4	3	2.2
IQR i	45.5	17.1	12.5	8.6	5.68	10.3	3.55	4.73	9.8	9.1	6.5	4.5
Robust CV % i	11	15	4	14	10	4	5	4	19	13	5	4
Median f	315	85.2	207	44.5	41.7	214	52	89	37.4	50	105	83
Mean f	324	83.9	205	44.7	41.3	214	52.2	88.8	37.1	50.9	105	81.8
MAD f	19	8.8	6	4.9	3.05	4	0.2	1.2	5.3	4	2.5	2.35
IQR f	45.5	15.9	10.5	8.6	5.68	6	0.6	1.8	9.8	9.1	4	3.98
Robust CV % f	11	14	4	14	10	2	1	1	19	13	3	4
Outliers	0	1	1	0	0	3	1	2	0	0	1	1
Stragglers	0	0	0	0	0	0	4	1	0	0	0	0

2022: Phosphate Extractable S (10B1 + 10B2 + 10B3) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	10	10	10	10	10	10	10	10	9	9	9	9
Minimum	45.8	25	21.1	19.2	3.08	16.5	48.4	20	7.49	175	46.8	25.5
Maximum	57	29.9	40.6	36.9	4.77	24.1	63.8	30.2	8.78	260	50.1	34.3
Median i	52.5	27.8	36.6	24.1	3.93	20.3	56.4	27	8.3	207	48.5	27.1
Mean i	52.4	27.6	35.2	25.3	3.89	19.9	55.8	25.9	8.32	209	48.5	27.6
MAD i	2	1.6	2.8	0.95	0.585	0.6	1.25	2.7	0.12	26	1.4	1
IQR i	3.83	2.95	5.03	2.65	1.06	1.05	2.98	5.58	0.39	39	2.5	2.3
Robust CV % i	5	8	10	8	20	4	4	15	3	14	4	6
Median f	52.5	27.8	37.1	24.1	3.93	20.3	56.6	27	8.35	207	48.5	27.1
Mean f	52.4	27.6	36.8	24.6	3.89	20.4	56.2	25.9	8.42	209	48.5	26.8
MAD f	2	1.6	2.7	0.85	0.585	0.1	0.7	2.7	0.15	26	1.4	1
IQR f	3.83	2.95	5.1	1.95	1.06	0.1	1.55	5.58	0.365	39	2.5	1.98
Robust CV % f	5	8	10	6	20	0	2	15	3	14	4	5
Outliers	0	0	1	2	0	3	2	0	1	0	0	1
Stragglers	0	0	0	0	0	2	1	0	0	0	0	0

2022: KCl_{40} Extractable S (10D1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	13	13	13	13	12	12	12	12	12	12	12	12
Minimum	16.1	15.1	13.2	19.4	2	12.9	44.2	11	4	218	39.4	21
Maximum	20	27	22	29	4.09	16	59	30.8	8	336	49.9	26.2
Median i	18.7	22.1	20.6	21	2.9	13.6	53.1	12.6	6.98	273	44	22.5
Mean i	18.5	21.9	19.4	22.5	3.04	14	51.8	14.1	6.84	274	43.7	23.2
MAD i	1.3	1	1.4	1.6	0.44	0.5	1.2	0.9	0.16	16.5	2.7	0.6
IQR i	2.3	2.4	2.8	3.1	0.765	1.15	4	2.08	0.293	32.5	4.03	2.75
Robust CV % i	9	8	10	11	20	6	6	12	3	9	7	9
Median f	18.7	22.1	20.7	20.9	2.9	13.5	53.7	12.4	6.92	273	44	22.1
Mean f	18.5	22.1	20	21.4	3.04	13.8	53.1	12.6	6.94	274	43.7	22.1
MAD f	1.3	1	1.3	1.3	0.44	0.5	0.55	0.7	0.12	16.5	2.7	0.25
IQR f	2.3	1.95	2.73	2.6	0.765	0.9	1.55	1.75	0.26	32.5	4.03	0.55
Robust CV % f	9	7	10	9	20	5	2	10	3	9	7	2
Outliers	0	2	1	2	0	1	3	1	3	0	0	3
Stragglers	0	0	0	0	0	0	1	0	0	0	0	1

2022: DTPA Extractable Fe (12A1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	23	23	23	23	26	26	26	26	25	25	25	25
Minimum	146	3.6	18	271	31.6	5.2	92.3	47.7	4.48	14.3	10.7	2.7
Maximum	405	9.95	58.1	508	167	129	253	255	418	230	23	7.14
Median i	190	5.28	25	371	48.4	7.69	135	83	54.6	145	17	5
Mean i	206	5.47	27.3	372	51.7	12.4	143	94.7	66.7	144	16.6	5.01
MAD i	26	0.57	3.1	31	2.8	0.405	13.5	11.3	5	9	2.5	0.46
IQR i	48.5	1.14	7.3	62	5.83	0.813	24.8	38.7	8.7	17	5	0.84
Robust CV % i	19	16	22	12	9	8	14	35	12	9	22	12
Median f	187	5.09	24.6	367	48.5	7.64	134	78.3	54.6	145	17	5
Mean f	192	5.01	24.6	366	48.8	7.61	135	77.9	53.8	144	16.6	5.02
MAD f	25	0.545	2.7	27.5	2.55	0.37	10	7.1	3.1	8	2.5	0.46
IQR f	39	1.01	5.18	52.5	4.85	0.66	22	13.8	6.15	15.3	5	0.81
Robust CV % f	15	15	16	11	7	6	12	13	8	8	22	12
Outliers	2	2	3	1	4	5	3	3	4	4	0	2
Stragglers	0	1	0	0	0	0	2	4	2	1	0	0

2022: DTPA Extractable Cu (12A1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	23	23	23	22	26	26	26	26	24	25	25	25
Minimum	0.83	0.86	4.4	0.321	1.99	0.71	0.934	1.62	0.115	1.98	1.36	1.1
Maximum	2.12	1.7	9.22	0.514	7.34	1.34	2.16	2.49	0.317	12.7	2	2
Median i	1.32	1.29	5.5	0.419	4.76	1.07	1.6	2.07	0.21	2.11	1.54	1.28
Mean i	1.37	1.29	5.83	0.416	4.75	1.06	1.58	2.08	0.218	2.57	1.57	1.31
MAD i	0.09	0.09	0.48	0.019	0.115	0.074	0.085	0.08	0.02	0.07	0.06	0.04
IQR i	0.14	0.195	0.99	0.0338	0.218	0.111	0.165	0.163	0.0255	0.18	0.1	0.07
Robust CV % i	8	11	13	6	3	8	8	6	9	6	5	4
Median f	1.31	1.29	5.36	0.417	4.76	1.07	1.6	2.03	0.208	2.08	1.53	1.28
Mean f	1.33	1.27	5.42	0.411	4.76	1.06	1.61	2.05	0.21	2.09	1.54	1.28
MAD f	0.07	0.09	0.34	0.017	0.05	0.069	0.07	0.05	0.012	0.04	0.05	0.03
IQR f	0.105	0.18	0.595	0.0275	0.1	0.107	0.12	0.11	0.022	0.075	0.1	0.05
Robust CV % f	6	10	8	5	2	7	6	4	8	3	5	3
Outliers	3	3	3	3	5	2	3	4	3	4	1	4
Stragglers	1	0	1	0	4	0	0	1	2	2	1	2

2022: DTPA Extractable Mn (12A1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	23	23	23	23	26	26	26	26	25	25	25	25
Minimum	50	57.6	165	38	4.36	36	7.2	139	21.3	18.8	3.32	3.58
Maximum	83	103	404	55	6.14	55.6	11.4	231	38	34.5	85.1	93.6
Median i	65.2	80.8	227	48.5	5.29	49.2	9.48	192	25.3	24.8	71.9	80.1
Mean i	65.5	81.1	242	47.7	5.3	49	9.49	189	26.2	24.6	70.3	77.4
MAD i	3.8	4.8	29	2.4	0.18	3.25	0.45	11.5	1.2	1.8	4.1	2.9
IQR i	8.2	8.05	54.5	4.15	0.405	6.5	0.823	25.5	2.9	3.4	8.1	6.3
Robust CV % i	9	7	18	6	6	10	6	10	8	10	8	6
Median f	64.7	80.8	224	49	5.3	49.3	9.5	194	25.2	24.8	72	80.1
Mean f	64.5	81	223	49.1	5.35	49.5	9.57	191	25.5	24.4	73	79.9
MAD f	3.7	2.3	14.5	2.25	0.13	3.3	0.37	14	1	1.6	4.05	2.8
IQR f	6.6	5.2	24.5	4.15	0.21	6.1	0.78	21	1.9	2.75	8.25	5.2
Robust CV % f	8	5	8	6	3	9	6	8	6	8	8	5
Outliers	3	3	2	3	7	1	2	1	2	1	1	2
Stragglers	0	3	3	0	0	0	1	0	2	1	0	0

2022: DTPA Extractable Zn (12A1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	23	23	23	23	26	25	26	26	24	25	25	25
Minimum	2	1.29	0.366	2.6	1.8	0.24	6.3	1.9	0.49	0.97	0.8	0.95
Maximum	4.63	2.13	11.1	4.13	3.4	1.4	13.1	4.64	1.22	17	2.04	2.09
Median i	3.17	1.52	7.21	3.67	2.26	0.385	8.56	2.49	0.694	12.7	1.28	1.45
Mean i	3.21	1.56	6.96	3.59	2.33	0.417	8.61	2.68	0.696	12.5	1.29	1.44
MAD i	0.15	0.1	0.65	0.13	0.135	0.045	0.295	0.165	0.041	0.7	0.08	0.09
IQR i	0.315	0.205	1.07	0.27	0.245	0.08	0.838	0.358	0.0918	1.3	0.16	0.17
Robust CV % i	7	10	11	5	8	15	7	11	10	8	9	9
Median f	3.12	1.52	7.21	3.68	2.23	0.384	8.58	2.47	0.7	12.7	1.29	1.45
Mean f	3.13	1.51	7.12	3.64	2.25	0.376	8.57	2.5	0.689	12.9	1.29	1.46
MAD f	0.16	0.09	0.52	0.125	0.13	0.0435	0.12	0.07	0.03	0.7	0.06	0.08
IQR f	0.265	0.18	0.95	0.223	0.235	0.0733	0.22	0.19	0.078	1.25	0.113	0.15
Robust CV % f	6	9	10	4	8	14	2	6	8	7	6	8
Outliers	3	2	4	3	3	1	7	6	3	2	3	3
Stragglers	1	0	0	0	0	0	4	1	0	0	0	0

2022: $CaCl_2$ Extractable B (12C1 + 12C2) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	19	19	19	19	18	20	20	19	17	18	18	18
Minimum	0.4	1.3	0.6	0.417	0.14	0.49	0.16	0.23	0.12	0.4	0.6	0.6
Maximum	1.32	2.51	1.58	2.52	0.511	3.77	1.61	0.982	0.235	2.21	2.46	3
Median i	0.669	2.13	1.15	0.68	0.202	1.66	0.81	0.523	0.16	1.55	1.69	2.14
Mean i	0.703	2.06	1.12	0.783	0.232	1.67	0.821	0.537	0.17	1.52	1.67	2.13
MAD i	0.074	0.18	0.16	0.086	0.0155	0.3	0.0945	0.075	0.027	0.14	0.235	0.15
IQR i	0.154	0.27	0.275	0.184	0.0273	0.503	0.155	0.133	0.046	0.25	0.405	0.288
Robust CV % i	17	9	18	20	10	23	14	19	21	12	18	10
Median f	0.668	2.17	1.15	0.678	0.202	1.69	0.81	0.523	0.16	1.55	1.7	2.11
Mean f	0.664	2.14	1.12	0.666	0.204	1.68	0.814	0.529	0.17	1.54	1.73	2.14
MAD f	0.0685	0.18	0.16	0.078	0.007	0.2	0.0835	0.063	0.027	0.125	0.22	0.15
IQR f	0.11	0.21	0.275	0.166	0.0123	0.35	0.135	0.103	0.046	0.19	0.35	0.255
Robust CV % f	12	7	18	18	4	15	12	15	21	9	15	9
Outliers	3	2	0	2	5	2	2	2	0	2	1	2
Stragglers	0	0	0	0	1	1	0	0	0	0	0	1

2022: Exchangeable Ca — 1M NH_4Cl extract (15A1) cmol+/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	16	16	16	16	17	16	17	17	17	17	17	17
Minimum	1.6	18.8	3.6	0.8	0.4	36	6.14	1.54	1.82	10.1	26.7	22.8
Maximum	4.74	32.2	7.2	3.3	0.68	62	11.4	2.7	2.37	13.3	34	35.1
Median i	4.21	28.9	6.15	2.77	0.45	41.6	7.26	1.8	2.13	11.5	28.4	29.8
Mean i	4.07	28.6	6.1	2.7	0.462	42.6	7.42	1.83	2.13	11.6	28.9	29.8
MAD i	0.305	1.25	0.425	0.165	0.033	1.4	0.37	0.12	0.04	0.5	0.8	1.2
IQR i	0.605	3.13	0.79	0.398	0.063	2.78	0.57	0.18	0.08	0.9	1.3	1.8
Robust CV % i	11	8	10	11	10	5	6	7	3	6	3	4
Median f	4.21	29.3	6.17	2.8	0.445	41.6	7.26	1.8	2.14	11.5	28.4	29.8
Mean f	4.23	29.7	6.26	2.83	0.448	41.5	7.24	1.77	2.15	11.6	28.6	29.3
MAD f	0.31	1.35	0.38	0.2	0.033	1.1	0.26	0.11	0.035	0.5	0.75	0.5
IQR f	0.55	3.1	0.63	0.37	0.0623	1.73	0.51	0.185	0.0725	0.9	1.23	1.4
Robust CV % f	10	8	8	10	10	3	5	8	3	6	3	3
Outliers	1	2	1	1	1	3	1	1	4	0	1	3
Stragglers	0	0	0	0	0	1	1	0	1	0	0	1

2022: Exchangeable K — 1M NH_4Cl extract (15A1) cmol+/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	16	16	16	16	17	16	17	17	17	17	17	17
Minimum	0.069	1.46	0.32	0.16	0.6	0.34	0.4	0.46	0.1	2.2	0.8	1.57
Maximum	0.315	4	0.903	0.52	1.05	0.602	0.83	0.83	0.2	3.1	1.14	2.02
Median i	0.145	1.92	0.4	0.246	0.959	0.556	0.736	0.717	0.149	2.77	0.98	1.86
Mean i	0.153	2	0.431	0.25	0.93	0.539	0.706	0.724	0.153	2.77	0.991	1.84
MAD i	0.0265	0.06	0.0215	0.027	0.046	0.0395	0.046	0.063	0.011	0.12	0.04	0.06
IQR i	0.052	0.113	0.0373	0.0448	0.098	0.0778	0.075	0.108	0.024	0.21	0.06	0.11
Robust CV % i	27	4	7	13	8	10	8	11	12	6	5	4
Median f	0.144	1.93	0.4	0.246	0.97	0.56	0.74	0.727	0.146	2.78	0.979	1.9
Mean f	0.143	1.92	0.393	0.237	0.951	0.552	0.741	0.74	0.147	2.8	0.983	1.89
MAD f	0.024	0.03	0.013	0.0125	0.0565	0.039	0.046	0.046	0.006	0.11	0.021	0.05
IQR f	0.0415	0.05	0.0293	0.0415	0.092	0.0655	0.082	0.102	0.015	0.215	0.0325	0.075
Robust CV % f	21	2	5	13	7	9	8	10	8	6	2	3
Outliers	1	3	3	1	1	1	2	1	3	1	2	2
Stragglers	0	2	1	1	0	0	0	0	1	0	3	1

2022: Exchangeable Mg — 1M NH_4Cl extract (15A1) cmol+/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	16	16	16	16	17	16	17	17	17	17	17	17
Minimum	0.6	2.34	1.4	0.7	17.7	3.96	1.5	1.01	1.3	2.7	8.2	2.7
Maximum	1.82	3.1	2.89	1.41	21.3	11.1	2.08	1.28	1.68	3.53	10.5	3.23
Median i	1.65	2.83	2.59	1.2	19.2	9.88	1.8	1.14	1.52	3.11	9.13	2.9
Mean i	1.58	2.82	2.53	1.19	19.4	9.68	1.79	1.15	1.51	3.11	9.18	2.92
MAD i	0.095	0.125	0.13	0.04	0.8	0.225	0.1	0.04	0.05	0.09	0.46	0.1
IQR i	0.183	0.248	0.218	0.065	1.1	0.658	0.17	0.1	0.1	0.15	0.79	0.22
Robust CV % i	8	6	6	4	4	5	7	7	5	4	6	6
Median f	1.66	2.83	2.59	1.2	19.2	9.83	1.8	1.14	1.53	3.12	9.13	2.9
Mean f	1.65	2.85	2.61	1.19	19.4	9.86	1.79	1.15	1.53	3.13	9.18	2.92
MAD f	0.09	0.13	0.09	0.03	0.8	0.14	0.1	0.04	0.05	0.075	0.46	0.1
IQR f	0.155	0.25	0.205	0.05	1.1	0.26	0.17	0.1	0.085	0.133	0.79	0.22
Robust CV % f	7	7	6	3	4	2	7	7	4	3	6	6
Outliers	1	1	1	3	0	3	0	0	1	2	0	0
Stragglers	0	0	0	0	0	3	0	0	0	1	0	0

2022: Exchangeable Na — 1M NH_4Cl extract (15A1) cmol+/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	16	16	14	14	17	16	16	17	17	17	17	17
Minimum	0.093	0.12	0.046	0.056	7.3	0.37	0.42	0.03	0.14	1	3.2	0.14
Maximum	0.268	0.236	0.197	0.124	12.6	2.23	0.92	0.154	0.324	1.57	4.56	0.223
Median i	0.125	0.183	0.061	0.0756	11	0.834	0.841	0.11	0.196	1.31	4.23	0.185
Mean i	0.137	0.184	0.0792	0.0784	10.7	0.87	0.784	0.103	0.193	1.3	4.15	0.18
MAD i	0.017	0.0175	0.00835	0.00605	0.8	0.054	0.047	0.01	0.006	0.09	0.21	0.015
IQR i	0.027	0.0265	0.0328	0.0115	1.4	0.0795	0.102	0.02	0.03	0.18	0.51	0.035
Robust CV % i	16	11	40	11	9	7	9	13	11	10	9	14
Median f	0.121	0.183	0.0598	0.075	11.1	0.837	0.854	0.11	0.197	1.31	4.32	0.185
Mean f	0.116	0.184	0.0582	0.0728	11	0.836	0.853	0.111	0.197	1.3	4.3	0.18
MAD f	0.0075	0.0175	0.0042	0.0055	0.85	0.013	0.0265	0.0085	0.003	0.09	0.11	0.015
IQR f	0.026	0.0265	0.008	0.0113	1.43	0.031	0.044	0.014	0.0065	0.18	0.223	0.035
Robust CV % f	16	11	10	11	10	3	4	9	2	10	4	14
Outliers	2	0	4	2	1	4	3	5	6	0	2	0
Stragglers	2	0	0	0	0	1	1	0	0	0	1	0

2022: Exchangeable Ca — 1M NH_4OAc extract (15D3) cmol+/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	19	19	19	19	20	20	20	20	19	19	19	19
Minimum	3.46	26.6	5.63	2.42	0.209	31.5	5.55	1.35	1.71	10.8	24.3	26.1
Maximum	10.9	79.5	7.71	3.25	27.5	7980	1170	179	2.83	348	34.6	500
Median i	4.18	28.8	6.2	2.76	0.451	39.1	7.08	1.65	2.17	11.6	29.3	29.5
Mean i	4.5	32.9	6.31	2.76	1.81	438	65.4	10.6	2.18	29.5	29.2	58.1
MAD i	0.19	1.5	0.15	0.1	0.0275	2	0.23	0.06	0.06	0.5	1.1	1.2
IQR i	0.355	3.75	0.22	0.225	0.0598	3.95	0.423	0.15	0.11	1.1	1.9	4.25
Robust CV % i	6	10	3	6	10	7	4	7	4	7	5	11
Median f	4.18	28.2	6.19	2.75	0.449	39	7.03	1.65	2.18	11.4	29.3	29
Mean f	4.19	28.5	6.19	2.7	0.45	39	7.11	1.66	2.18	11.5	29.1	28.9
MAD f	0.17	0.8	0.075	0.11	0.0175	1.9	0.23	0.05	0.04	0.4	0.7	0.7
IQR f	0.31	1.43	0.133	0.2	0.034	3.6	0.36	0.0875	0.075	0.725	1.45	1.2
Robust CV % f	5	4	2	5	6	7	4	4	3	5	4	3
Outliers	2	3	3	2	3	3	3	4	3	2	2	4
Stragglers	0	2	2	0	1	0	0	0	2	1	2	2

2022: Exchangeable K — 1M NH_4OAc extract (15D3) cmol+/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	19	19	19	19	20	20	20	20	19	19	19	19
Minimum	0.113	1.51	0.355	0.205	0.8	0.464	0.65	0.61	0.088	1.86	0.868	1.71
Maximum	0.257	2.15	0.463	0.281	337	172	254	268	0.156	3.05	1.33	2.11
Median i	0.146	1.86	0.392	0.244	0.927	0.526	0.745	0.727	0.141	2.89	0.977	1.89
Mean i	0.152	1.87	0.394	0.242	17.7	9.11	13.4	14.1	0.138	2.8	1.02	1.92
MAD i	0.004	0.09	0.011	0.011	0.0295	0.0305	0.0255	0.04	0.003	0.1	0.051	0.05
IQR i	0.007	0.175	0.019	0.019	0.0608	0.0538	0.0473	0.0705	0.006	0.185	0.126	0.11
Robust CV % i	4	7	4	6	5	8	5	7	3	5	10	4
Median f	0.146	1.88	0.388	0.244	0.921	0.522	0.745	0.717	0.142	2.92	0.974	1.88
Mean f	0.146	1.89	0.388	0.242	0.922	0.526	0.747	0.713	0.141	2.9	0.989	1.9
MAD f	0.002	0.09	0.01	0.011	0.016	0.0265	0.024	0.025	0.0015	0.07	0.044	0.03
IQR f	0.004	0.155	0.019	0.019	0.025	0.0458	0.0443	0.057	0.003	0.13	0.099	0.08
Robust CV % f	2	6	4	6	2	6	4	6	2	3	8	3
Outliers	5	1	1	0	6	2	2	2	6	2	2	3
Stragglers	1	0	1	0	1	0	0	1	1	1	0	1

2022: Exchangeable Mg — 1M NH_4OAc extract (15D3) cmol+/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	19	19	19	19	20	20	20	20	19	19	19	19
Minimum	1.47	2.31	2.33	1.08	16.9	8.55	1.5	0.95	1.35	2.85	5.09	2.53
Maximum	1.84	3.66	3.03	1.45	2330	1150	165	91.1	1.63	3.38	10	3.73
Median i	1.62	2.82	2.61	1.24	19.1	9.58	1.77	1.11	1.53	2.99	8.76	2.85
Mean i	1.64	2.88	2.62	1.22	135	66.5	9.92	5.6	1.52	3.06	8.75	2.91
MAD i	0.06	0.14	0.06	0.07	0.9	0.465	0.05	0.04	0.04	0.11	0.33	0.09
IQR i	0.095	0.375	0.1	0.08	1.58	0.723	0.095	0.07	0.065	0.22	0.72	0.175
Robust CV % i	4	10	3	5	6	6	4	5	3	5	6	5
Median f	1.62	2.82	2.6	1.24	19	9.49	1.76	1.11	1.53	2.99	8.75	2.84
Mean f	1.63	2.87	2.6	1.22	18.7	9.52	1.77	1.11	1.54	3.06	8.84	2.86
MAD f	0.06	0.14	0.04	0.07	0.5	0.29	0.03	0.03	0.03	0.11	0.2	0.09
IQR f	0.0875	0.26	0.0775	0.08	0.9	0.645	0.06	0.0625	0.07	0.22	0.558	0.163
Robust CV % f	4	7	2	5	4	5	3	4	3	5	5	4
Outliers	1	2	3	0	2	1	4	4	2	0	2	1
Stragglers	0	0	0	0	1	0	1	0	0	0	1	0

2022: Exchangeable Na — 1M NH_4OAc extract (15D3) cmol+/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	19	19	19	19	20	20	20	20	18	18	18	18
Minimum	0.107	0.143	0.0517	0.0693	6.06	0.646	0.662	0.089	0.11	1.17	3.36	0.16
Maximum	0.263	0.328	0.192	0.177	2110	252	138	164	0.223	1.45	4.7	1.9
Median i	0.129	0.177	0.063	0.082	11	0.79	0.823	0.111	0.188	1.33	4.2	0.184
Mean i	0.147	0.188	0.0806	0.0921	116	13.4	7.67	8.33	0.185	1.33	4.15	0.325
MAD i	0.008	0.021	0.007	0.008	0.5	0.061	0.0285	0.009	0.004	0.055	0.1	0.012
IQR i	0.0285	0.0425	0.0278	0.0193	0.925	0.152	0.0698	0.0235	0.0075	0.09	0.193	0.027
Robust CV % i	16	18	33	17	6	14	6	16	3	5	3	11
Median f	0.124	0.177	0.059	0.0787	11	0.787	0.827	0.11	0.188	1.33	4.2	0.182
Mean f	0.125	0.18	0.06	0.0777	10.9	0.784	0.821	0.11	0.186	1.33	4.2	0.181
MAD f	0.0045	0.0205	0.003	0.0045	0.25	0.048	0.0135	0.002	0.0025	0.055	0.06	0.004
IQR f	0.00825	0.0375	0.007	0.0095	0.525	0.091	0.0295	0.004	0.00325	0.09	0.085	0.00775
Robust CV % f	5	16	9	9	4	9	3	3	1	5	2	3
Outliers	5	1	5	4	5	3	4	4	5	0	7	3
Stragglers	0	0	1	1	1	0	2	3	1	0	0	3

2022: Exchangeable Al — 1M KCl (15G1) cmol+/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	17	15	15	17	16	14	14	16	14	12	13	12
Minimum	0.35	0.001	0.001	0.284	0.144	0.001	0.002	0.652	0.001	0.001	0.0011	0.001
Maximum	0.627	0.137	0.338	0.47	1.31	0.335	0.361	1.15	0.504	0.17	0.335	0.147
Median i	0.522	0.008	0.01	0.394	0.203	0.0055	0.0186	0.983	0.0235	0.0178	0.00923	0.0065
Mean i	0.497	0.0193	0.0469	0.38	0.273	0.0367	0.063	0.928	0.0666	0.0467	0.0382	0.0217
MAD i	0.078	0.006	0.006	0.046	0.019	0.004	0.014	0.102	0.0159	0.0128	0.00667	0.0025
IQR i	0.17	0.0121	0.0214	0.067	0.03	0.013	0.068	0.195	0.037	0.0517	0.0188	0.00814
Robust CV % i	24	112	159	13	11	176	271	15	117	215	151	93
Median f	0.522	0.00547	0.00857	0.394	0.201	0.0042	0.01	0.983	0.0164	0.014	0.0073	0.0055
Mean f	0.497	0.00718	0.00809	0.38	0.197	0.00439	0.0123	0.928	0.0202	0.016	0.00859	0.00551
MAD f	0.078	0.00347	0.00343	0.046	0.02	0.0012	0.0052	0.102	0.0094	0.009	0.00285	0.0015
IQR f	0.17	0.0066	0.00621	0.067	0.0338	0.002	0.0102	0.195	0.0166	0.0143	0.00533	0.002
Robust CV % f	24	89	54	13	12	35	76	15	75	76	54	27
Outliers	0	2	4	0	2	3	4	0	3	3	2	3
Stragglers	0	1	0	0	0	2	1	0	0	0	1	0

2022: Extractable K — Bicarbonate (18A1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	13	13	13	12	11	11	11	11	11	11	11	11
Minimum	43	473	131	78.1	362	113	269	289	22	1030	212	489
Maximum	86.9	819	208	224	447	187	420	378	72.4	1420	346	749
Median i	58.5	570	152	97.7	426	142	310	333	63.2	1250	286	581
Mean i	60.6	588	158	108	413	143	321	331	56.6	1220	280	589
MAD i	10.7	44	12	11.5	21	2	8	11	8.2	100	25	32
IQR i	19.2	67	21	25.5	52.5	9	19.5	27.5	16.8	245	47.5	48.5
Robust CV % i	24	9	10	19	9	5	5	6	20	15	12	6
Median f	58.5	570	152	96.3	426	143	310	333	64.1	1250	286	580
Mean f	60.6	569	154	97.5	413	143	309	331	60.1	1220	280	573
MAD f	10.7	40.5	11	10.3	21	1	6.5	11	7.95	100	25	26
IQR f	19.2	70.3	20.3	17.6	52.5	2.75	8.75	27.5	13.6	245	47.5	44
Robust CV % f	24	9	10	14	9	1	2	6	16	15	12	6
Outliers	0	1	1	1	0	5	3	0	1	0	0	1
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

2022: Total Organic Matter (6G1) %

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	6	6	6	6	7	7	7	7	8	8	8	8
Minimum	3.8	2.3	2.5	6.4	0.193	1.8	3.37	1.4	0.742	3.3	2.44	2.37
Maximum	6.29	4.09	6.76	7.9	1.16	3.7	4.34	2.29	1.53	7.29	4.33	3.77
Median i	4.4	2.84	3.12	7.62	0.44	2.25	3.6	1.7	0.836	6.13	2.72	2.71
Mean i	4.81	2.95	4.04	7.43	0.592	2.57	3.69	1.76	0.949	6.03	3	2.81
MAD i	0.55	0.405	0.465	0.14	0.199	0.43	0.19	0.2	0.05	0.19	0.205	0.26
IQR i	1.64	0.775	2.52	0.218	0.515	1.11	0.235	0.455	0.163	0.433	0.55	0.485
Robust CV % i	28	20	60	2	87	37	5	20	14	5	15	13
Median f	4.4	2.84	2.8	7.63	0.44	2.25	3.6	1.7	0.805	6.11	2.6	2.71
Mean f	4.81	2.95	2.88	7.63	0.592	2.57	3.69	1.76	0.819	6.12	2.64	2.81
MAD f	0.55	0.405	0.15	0.03	0.199	0.43	0.19	0.2	0.0305	0.04	0.135	0.26
IQR f	1.64	0.775	0.233	0.03	0.515	1.11	0.235	0.455	0.0483	0.05	0.255	0.485
Robust CV % f	28	20	6	0	87	37	5	20	4	1	7	13
Outliers	0	0	2	1	0	0	0	0	2	3	2	0
Stragglers	0	0	0	2	0	0	0	0	0	0	0	0

2022: Extractable Al – Mehlich 3 (18F1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	17	17	17	17	17	17	17	17	15	15	15	15
Minimum	128	21	86	35	44	86	40	63	413	425	447	175
Maximum	1490	535	1150	506	441	844	609	892	635	702	900	803
Median i	1080	450	792	411	400	749	501	760	512	443	790	449
Mean i	1060	417	782	395	374	709	476	715	518	465	779	445
MAD i	50	23	44	18	16	27	17	41	22	14	35	25
IQR i	90	46	80	34	29	49	26	99	38	33	67	31.5
Robust CV % i	6	8	7	6	5	5	4	10	6	6	6	5
Median f	1080	450	792	411	400	750	503	760	511	440	791	450
Mean f	1080	455	804	412	399	753	501	755	512	444	802	448
MAD f	45	23	40	16	13	21	12	39.5	13	10	31.5	13.5
IQR f	87.5	43	65.5	28.5	23.5	42	23.8	95.3	21.8	27	62.3	27
Robust CV % f	6	7	6	5	4	4	4	9	3	5	6	4
Outliers	3	3	2	2	2	2	5	1	2	2	1	3
Stragglers	0	0	0	0	0	1	0	0	1	0	0	0

2022: Extractable B – Mehlich 3 (18F1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	16	16	16	16	14	16	15	15	13	14	14	14
Minimum	0.099	0.2	0.15	0.16	0.01	0.15	0.12	0.01	0.05	1.02	1.33	1.8
Maximum	2.31	4.42	1.57	2.35	0.556	3.28	1.5	2.9	1.29	33.3	5.43	13.6
Median i	0.268	3.2	0.817	0.285	0.12	2.55	0.669	0.218	0.1	1.28	2.16	3.23
Mean i	0.472	3.11	0.834	0.591	0.193	2.37	0.709	0.455	0.238	3.57	2.33	3.86
MAD i	0.105	0.21	0.17	0.068	0.0528	0.185	0.064	0.078	0.029	0.11	0.17	0.125
IQR i	0.277	0.39	0.307	0.271	0.185	0.333	0.0985	0.148	0.0463	0.155	0.293	0.36
Robust CV % i	77	9	28	70	114	10	11	50	34	9	10	8
Median f	0.238	3.2	0.822	0.252	0.09	2.59	0.657	0.209	0.0989	1.27	2.12	3.24
Mean f	0.269	3.18	0.872	0.247	0.0969	2.61	0.668	0.231	0.1	1.26	2.09	3.3
MAD f	0.078	0.09	0.108	0.0295	0.005	0.12	0.031	0.031	0.0029	0.07	0.14	0.09
IQR f	0.123	0.175	0.227	0.046	0.01	0.243	0.0618	0.073	0.00615	0.11	0.25	0.24
Robust CV % f	38	4	20	14	8	7	7	26	5	6	9	5
Outliers	3	4	2	4	3	3	4	3	3	1	3	3
Stragglers	0	1	1	2	4	1	1	1	3	1	0	0

2022: Extractable Ca – Mehlich 3 (18F1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	16	16	16	16	16	16	16	16	15	15	15	15
Minimum	124	1190	180	63	26	1250	196	39	401	2340	4830	7990
Maximum	932	10200	1370	615	107	12000	1760	360	481	3470	6210	10000
Median i	834	8620	1280	566	81.8	10600	1620	333	438	2640	5520	8750
Mean i	785	8160	1220	538	80	9970	1490	316	440	2690	5470	8990
MAD i	19.5	905	35	18	6.3	350	85	14	12	140	170	400
IQR i	51.5	1640	52.5	36.8	9.95	650	230	25.5	20	240	340	855
Robust CV % i	5	14	3	5	9	5	11	6	3	7	5	7
Median f	836	8740	1280	572	81.8	10700	1630	336	438	2630	5520	8750
Mean f	826	8630	1290	569	82	10600	1600	334	440	2640	5460	8990
MAD f	15	870	30	17	4.05	300	70	12	12	120	140	400
IQR f	31	1520	55	30.5	7.13	600	158	23	20	220	250	855
Robust CV % f	3	13	3	4	6	4	7	5	3	6	3	7
Outliers	2	1	1	1	2	3	2	1	0	1	2	0
Stragglers	1	0	0	0	0	0	0	0	0	0	0	0

2022: Extractable Cu – Mehlich 3 (18F1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	18	18	18	18	18	18	18	18	17	17	17	17
Minimum	0.003	0.17	1.21	0.071	0.57	0.23	0.17	0.02	0.205	1.01	2.06	1.27
Maximum	1.52	2.53	9.97	0.46	4.09	2.36	3.27	2.63	0.445	4.28	3.41	2.37
Median i	1.29	2.2	8.16	0.324	3.69	2.11	2.95	2.36	0.313	2.46	2.95	2.26
Mean i	1.19	2.06	7.72	0.313	3.51	2	2.72	2.2	0.312	2.38	2.94	2.13
MAD i	0.065	0.195	0.335	0.077	0.14	0.105	0.17	0.15	0.021	0.49	0.17	0.08
IQR i	0.188	0.373	0.573	0.132	0.29	0.215	0.335	0.363	0.04	1.01	0.26	0.2
Robust CV % i	11	13	5	30	6	8	8	11	9	30	7	7
Median f	1.32	2.25	8.26	0.324	3.76	2.13	3	2.39	0.319	2.41	2.97	2.3
Mean f	1.31	2.27	8.27	0.313	3.73	2.11	2.98	2.36	0.317	2.26	3.03	2.28
MAD f	0.035	0.15	0.235	0.077	0.11	0.1	0.1	0.125	0.019	0.505	0.11	0.03
IQR f	0.0575	0.3	0.438	0.132	0.193	0.2	0.2	0.255	0.034	1.03	0.23	0.06
Robust CV % f	3	10	4	30	4	7	5	8	8	32	6	2
Outliers	3	3	4	0	2	1	2	2	3	1	1	3
Stragglers	3	0	0	0	0	0	1	0	0	0	1	3

2022: Extractable Fe – Mehlich 3 (18F1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	18	18	18	18	18	18	18	18	17	17	17	17
Minimum	5.21	2.1	5.1	3.03	28	8.7	41	24	238	330	3.36	18
Maximum	436	34.2	119	685	170	74.3	380	293	454	736	151	31
Median i	360	24.3	77	555	135	60.8	326	231	315	426	120	24.1
Mean i	321	22.7	72.8	498	132	57.5	303	218	325	431	114	23.4
MAD i	23	2.6	8.2	28	10	3.35	29	21.5	29	34	15	1.9
IQR i	46.8	4.48	14.7	71.8	17.5	8.15	64.8	39	63	58	28	6
Robust CV % i	10	14	14	10	10	10	15	13	15	10	17	18
Median f	365	24.3	77	573	137	61.4	332	231	303	422	122	24.1
Mean f	358	24	76.6	560	138	60.6	324	230	311	412	121	23.4
MAD f	12	2	4.75	13	9	2.1	19.5	20	20	29.5	10	1.9
IQR f	36.5	3.58	9.08	38	17	3.9	47.3	37	34	61	17.5	6
Robust CV % f	7	11	9	5	9	5	11	12	8	11	11	18
Outliers	2	3	3	3	1	3	1	1	1	1	1	0
Stragglers	2	1	1	2	0	2	1	0	1	0	0	0

2022: Extractable K – Mehlich 3 (18F1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	16	16	16	16	17	16	16	16	15	15	15	15
Minimum	8.6	42	13	8.3	4.37	9.6	11	9.7	44.4	1000	296	362
Maximum	65.4	776	167	107	350	192	320	300	71	1220	402	740
Median i	56.8	709	149	94.6	321	180	295	273	59.4	1100	330	700
Mean i	55.3	671	142	91.2	285	170	272	252	60	1110	335	679
MAD i	2.15	30	4.5	3.35	12	4.5	9	16	0.8	30	17	12
IQR i	7.1	47.5	8.5	6.7	21	8.75	19.8	36.8	2.75	50	28.5	23.5
Robust CV % i	9	5	4	5	5	4	5	10	3	3	6	2
Median f	56.8	710	149	94.6	323	180	297	275	59.3	1100	329	703
Mean f	58	713	149	96	322	180	297	272	59.4	1100	330	702
MAD f	2.05	28	4	2.1	14	4	7	13	0.3	20	16.5	10.5
IQR f	6.05	43	7.5	6.3	21.5	8.5	10	29.3	0.8	50	30.3	20.5
Robust CV % f	8	4	4	5	5	4	2	8	1	3	7	2
Outliers	2	1	2	1	2	1	3	1	6	1	1	1
Stragglers	0	0	0	1	0	0	0	1	0	1	0	0

2022: Extractable Mg – Mehlich 3 (18F1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	16	16	16	16	16	16	16	16	16	16	16	16
Minimum	21	52	39	4.9	234	148	17	11	42	25	210	110
Maximum	234	495	370	177	2280	1480	255	145	199	462	1120	446
Median i	203	416	324	149	2160	1250	240	136	193	406	1080	415
Mean i	192	401	305	141	2020	1200	226	127	181	387	996	388
MAD i	7	14.5	6.5	7	50	50	10	7	4.5	16	30	14.5
IQR i	12.8	23.3	15.3	11.8	120	103	18	12.5	10	33	124	30
Robust CV % i	5	4	3	6	4	6	6	7	4	6	8	5
Median f	203	414	327	149	2180	1250	242	137	196	412	1100	416
Mean f	202	415	327	150	2170	1250	240	135	194	411	1090	417
MAD f	5	12	4	6	20	45	8	7	2	17	10	7
IQR f	9	15	8	10	30	97.5	17	12	4.5	31.5	20	16
Robust CV % f	3	3	2	5	1	6	5	6	2	6	1	3
Outliers	2	3	3	3	2	2	1	1	3	1	2	2
Stragglers	0	0	2	0	2	0	0	0	1	0	4	1

2022: Extractable Mn – Mehlich 3 (18F1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	18	18	18	18	18	18	18	18	17	17	17	17
Minimum	5.4	11	81	3.8	4.68	21	7.1	19	35.5	23.8	210	75.8
Maximum	115	143	755	51.8	8.5	176	18.6	338	59.3	37.1	344	144
Median i	85.8	129	549	46.4	5.24	146	13.5	226	42	28.4	287	125
Mean i	82.3	122	540	43.7	5.43	142	13.5	221	44.7	28.9	286	125
MAD i	9.2	4.5	50	1.1	0.27	11	1	15	2.5	1.3	30	7
IQR i	14.4	8.25	94.5	1.95	0.37	17	1.88	32.3	6.6	2.2	65	14
Robust CV % i	12	5	13	3	5	9	10	11	12	6	17	8
Median f	87.6	131	549	46.5	5.22	146	13.5	226	41.5	28.4	287	127
Mean f	86.8	130	555	46.7	5.25	149	13.6	226	41.4	28.4	286	128
MAD f	10.4	5	42	0.65	0.28	11	0.9	15	2	1.25	30	5.5
IQR f	14	9	83.5	1.43	0.38	15	1.63	28.8	3.3	2.18	65	14
Robust CV % f	12	5	11	2	5	8	9	9	6	6	17	8
Outliers	1	2	2	3	1	1	2	2	4	1	0	1
Stragglers	0	0	0	1	0	0	0	0	0	0	0	0

2022: Extractable Na – Mehlich 3 (18F1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	16	16	16	16	16	16	16	16	15	15	15	15
Minimum	18	17.4	1.32	7.73	736	77	71	21	33.4	271	729	31.5
Maximum	42.8	53	30.7	27.2	2720	484	210	39.1	63.1	331	1090	52
Median i	29.4	41.3	15.4	18.5	2450	178	190	25.9	46	297	920	43.1
Mean i	30.5	38.6	15.4	18.2	2370	189	179	26.4	45.5	302	895	43
MAD i	1.85	5.3	1.6	1	165	5	11	1.15	1.5	10	68	1.8
IQR i	4.1	10.4	2.9	1.68	270	13	22.5	2.33	2.5	29	130	2.8
Robust CV % i	10	19	14	7	8	5	9	7	4	7	10	5
Median f	29	43	16	18.6	2480	178	194	25.8	46	297	920	43.1
Mean f	29.3	43.1	15.7	18.6	2480	178	190	25.5	46	302	895	42.7
MAD f	0.65	4.2	1.3	0.4	140	1.5	10	1	0.9	10	68	0.2
IQR f	1.2	8.2	2.4	0.85	250	3.5	15.5	1.6	1.5	29	130	0.7
Robust CV % f	3	14	11	3	7	1	6	5	2	7	10	1
Outliers	4	3	2	2	1	4	2	3	3	0	0	2
Stragglers	2	0	1	3	0	2	0	0	0	0	0	4

2022: Extractable P – ICP — Mehlich 3 (18F1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	17	17	17	17	17	17	17	17	16	16	16	16
Minimum	7	3	3.3	3.2	3.5	2	0.33	2.2	7.61	188	4.5	59.6
Maximum	24.6	136	23.2	54.1	8	19.9	90.8	44.7	13.4	273	19.6	114
Median i	12.2	68.7	8.53	31.8	4.37	3.74	65.1	32.7	8.76	196	11.4	68.7
Mean i	13.6	70.9	9.69	32.1	4.86	5.74	64.8	32.5	9.1	214	12.2	74.4
MAD i	1.2	4.3	0.92	0.4	0.32	0.46	2.7	3.3	0.65	8	1.6	4.3
IQR i	3.4	9.3	1.76	0.8	0.92	0.82	7.5	4.2	1.13	47.3	2.67	9.73
Robust CV % i	21	10	15	2	16	16	9	10	10	18	17	10
Median f	12.1	67.4	8.39	31.8	4.26	3.67	65.1	32.7	8.66	192	11.2	67.6
Mean f	12.4	67.7	8.26	31.9	4.24	3.72	65.8	33	8.6	192	11.3	68.6
MAD f	0.9	4.2	0.49	0.4	0.21	0.35	2.5	2.3	0.535	2	0.945	3.1
IQR f	1.6	8	1.06	0.6	0.4	0.7	4.8	3.88	0.908	3	1.47	8.3
Robust CV % f	10	9	9	1	7	14	5	9	8	1	10	9
Outliers	4	3	3	4	4	4	3	1	2	5	4	3
Stragglers	0	0	1	0	0	0	0	2	0	2	0	0

2022: Extractable S – Mehlich 3 (18F1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	15	15	15	15	15	15	15	15	14	14	14	14
Minimum	2.1	0.64	3.6	4.5	2.94	4.1	2.5	3.7	7.8	234	44.1	24.5
Maximum	54.2	63.9	34.7	30.5	7.3	64.6	70.1	27.5	11.7	327	95.3	123
Median i	33.5	34.9	25.8	24.1	3.72	17.4	60	24	8.49	270	48.2	35.2
Mean i	32.2	36.1	24.9	23.8	4.6	22	57	22.8	8.95	274	52.8	42.6
MAD i	2.8	4.2	3.3	1.4	0.72	2.2	2.9	1.2	0.525	16	2	1.6
IQR i	4.7	11.5	4.95	3.1	3.41	8.5	5.3	2.25	1.04	34.5	3.48	6.28
Robust CV % i	10	24	14	10	68	36	7	7	9	9	5	13
Median f	33.5	34.9	26.1	23.8	3.51	17	60.3	24.4	8.39	270	47.8	35.1
Mean f	32.8	36.7	26.4	23.8	3.44	16.8	60.9	24.2	8.52	274	47.3	34.8
MAD f	2.1	4.1	3	1.1	0.305	1.1	2.7	1.5	0.43	16	1.6	0.75
IQR f	4	10.9	5.2	1.8	0.668	2.05	4.9	2.2	0.813	34.5	2.75	1.15
Robust CV % f	9	23	15	6	14	9	6	7	7	9	4	2
Outliers	2	2	1	4	5	5	1	1	2	0	3	6
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

2022: Extractable Zn — Mehlich 3 (18F1) mg/kg

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	18	18	18	18	18	18	18	18	17	17	17	17
Minimum	0.18	0.13	0.9	0.05	0.02	0.27	0.97	0.11	0.465	12.6	1.47	0.04
Maximum	5.56	3.65	15.3	4.09	5	6.8	14.4	3.91	1.26	20.5	3.02	3.33
Median i	3.87	2.9	10.5	3.21	2.75	0.596	12.7	3.21	0.965	17.2	2.42	2.86
Mean i	3.83	2.79	10.5	3.11	2.73	0.952	12.1	3.08	0.928	16.5	2.42	2.67
MAD i	0.185	0.25	0.35	0.175	0.15	0.102	0.45	0.2	0.085	1.6	0.14	0.15
IQR i	0.338	0.448	0.65	0.363	0.255	0.189	0.775	0.38	0.15	2.8	0.25	0.21
Robust CV % i	6	11	5	8	7	23	5	9	12	12	8	5
Median f	3.83	2.9	10.5	3.21	2.75	0.573	12.7	3.24	0.989	17.2	2.42	2.87
Mean f	3.81	2.9	10.5	3.24	2.77	0.57	12.6	3.33	0.985	16.5	2.41	2.87
MAD f	0.12	0.195	0.25	0.15	0.13	0.0815	0.3	0.195	0.089	1.6	0.11	0.16
IQR f	0.218	0.343	0.45	0.288	0.223	0.139	0.6	0.363	0.155	2.8	0.21	0.215
Robust CV % f	4	9	3	7	6	18	4	8	12	12	6	6
Outliers	4	1	4	2	4	2	3	2	2	0	3	2
Stragglers	0	1	0	0	0	0	2	0	0	0	0	0

2022: Aqua Regia Aluminium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	15	15	15	15	16	16	16	16	14	14	14	14
Minimum	2.69	2.28	4.82	0.212	5940	23000	2590	8900	6920	3080	15700	11600
Maximum	47600	32300	108000	7310	53600	77000	8800	33500	17900	8660	45900	30400
Median i	24300	21500	39800	3700	11900	44500	4960	15300	11900	5210	31500	21500
Mean i	24300	20500	43400	3830	16500	44600	5290	17400	12000	5260	30100	21000
MAD i	5000	4800	14800	870	3250	7900	1140	2850	850	1140	3550	1500
IQR i	9150	8350	23800	1480	12100	14900	2660	8780	1730	2250	10200	3700
Robust CV % i	28	29	44	30	76	25	40	43	11	32	24	13
Median f	24300	22000	39800	3610	9830	42700	4960	15000	11900	5210	32300	21500
Mean f	24400	22000	38800	3640	10000	42400	5290	16300	11800	5260	32100	21200
MAD f	4800	3850	13800	745	1990	7300	1140	2800	600	1140	1850	1100
IQR f	6000	7280	24400	1200	3250	14400	2660	6600	1080	2250	3280	1780
Robust CV % f	18	25	46	25	24	25	40	33	7	32	8	6
Outliers	2	1	1	2	3	1	0	1	4	0	3	4
Stragglers	0	0	0	1	2	0	0	0	0	0	1	0

2022: Aqua Regia Arsenic (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	13	13	13	13	16	14	14	14	14	14	14	14
Minimum	1	2.7	0.139	0.04	3.29	3.21	0.9	3.77	1.11	1	2.03	3
Maximum	3.9	4.55	6.97	1.42	10	7.5	4.38	7.83	4.2	4.07	5.5	5.43
Median i	2.36	3.58	2.94	0.702	5.91	5.6	1.43	6.01	2.95	2.58	3.53	3.57
Mean i	2.35	3.55	2.84	0.675	6.04	5.45	1.67	6.02	3	2.72	3.62	3.78
MAD i	0.44	0.58	0.94	0.132	0.64	1.02	0.385	0.87	0.28	0.44	1.1	0.485
IQR i	0.81	0.8	1.88	0.248	1.26	1.98	0.728	1.56	0.688	1.09	2.11	0.945
Robust CV % i	25	17	47	26	16	26	38	19	17	31	44	20
Median f	2.36	3.58	2.62	0.741	5.81	5.6	1.4	6.01	2.95	2.58	3.53	3.53
Mean f	2.35	3.55	2.5	0.714	5.81	5.45	1.46	6.02	3.06	2.72	3.62	3.65
MAD f	0.44	0.58	0.94	0.118	0.39	1.02	0.35	0.87	0.265	0.44	1.1	0.43
IQR f	0.81	0.8	1.8	0.207	0.85	1.98	0.67	1.56	0.523	1.09	2.11	0.96
Robust CV % f	25	17	51	21	11	26	35	19	13	31	44	20
Outliers	0	0	1	3	2	0	1	0	2	0	0	1
Stragglers	0	0	0	0	1	0	0	0	0	0	0	0

2022: Aqua Regia Boron (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	13	14	13	13	14	13	13	13	13	13	13	14
Minimum	0.507	1.99	0.412	0.557	0.47	5.3	0.767	0.819	0.1	1	0.777	5.86
Maximum	208	105	456	21.4	16.4	28	8.6	14.8	54.3	39.1	116	90.5
Median i	2.44	13	4	2.23	1.67	9.29	2.27	4.34	1.12	3.5	5.5	12.9
Mean i	33.3	24.5	67.5	5.19	3.62	11.9	3.16	5.05	5.3	6.03	14.3	18.9
MAD i	1.93	3.25	2.3	1.23	0.744	2.71	0.5	1.84	0.448	0.52	2.96	2.1
IQR i	6.9	9.95	7.17	2.23	3.93	4.9	2.1	3.3	0.808	1.02	6.21	5.35
Robust CV % i	210	57	133	74	174	39	69	56	53	22	84	31
Median f	1.5	12.5	3.82	1.96	1.36	9.2	2.06	4.22	1	3.5	5.4	12.5
Mean f	1.98	12.7	4.22	2.14	1.4	10.5	2.09	4.23	0.955	3.48	5.84	12.7
MAD f	0.662	1.45	1.35	0.7	0.4	2.51	0.24	1.62	0.328	0.5	2.86	1.9
IQR f	1.44	2.33	1.67	1.17	0.735	4.45	0.418	3.01	0.674	0.87	5.76	3.08
Robust CV % f	71	14	32	44	40	36	15	53	50	18	79	18
Outliers	3	2	2	2	4	1	3	1	2	2	1	2
Stragglers	1	4	1	1	0	0	2	0	0	0	0	0

2022: Aqua Regia Calcium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	17	17	17	17	18	19	19	19	17	17	17	17
Minimum	0.107	3.59	0.178	0.037	74.5	1.76	0.21	0.04	0.05	0.23	0.64	2.97
Maximum	1110	38000	1820	796	236	22300	2740	750	668	6700	8350	352000
Median i	990	33300	1590	713	103	18500	2220	477	517	4470	6940	33100
Mean i	903	30400	1430	658	121	17600	2110	465	485	4210	6410	50000
MAD i	50	1300	110	56	8.5	1000	180	38	30	290	460	2300
IQR i	120	3500	180	103	23.5	1800	385	75.5	64	560	780	4500
Robust CV % i	9	8	8	11	17	7	13	12	9	9	8	10
Median f	995	34200	1610	740	98.5	18500	2250	477	519	4520	6940	33100
Mean f	993	34200	1600	728	98.4	18800	2230	476	524	4500	6840	33700
MAD f	45	1300	85	46	7	600	160	37	27	230	250	1500
IQR f	84	1700	160	95	12.5	1350	353	70	48.8	420	670	2700
Robust CV % f	6	4	7	10	9	5	12	11	7	7	7	6
Outliers	2	3	3	2	4	3	1	2	3	3	2	3
Stragglers	0	1	0	0	0	1	0	0	0	0	2	1

2022: Aqua Regia Cadmium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	12	13	12	12	14	13	13	13	13	13	12	14
Minimum	0.0419	0.206	0.005	0.0007	0.00615	0.00846	0.01	0.0285	0.01	0.01	0.01	0.166
Maximum	3.18	1.34	6.91	0.16	0.733	2.78	0.298	2.56	0.082	0.151	0.615	0.29
Median i	0.0835	0.25	0.127	0.0305	0.0204	0.042	0.069	0.052	0.02	0.0743	0.0495	0.249
Mean i	0.604	0.333	0.81	0.0368	0.129	0.342	0.0916	0.351	0.0322	0.0803	0.0984	0.243
MAD i	0.0331	0.014	0.0469	0.0075	0.00735	0.0185	0.0234	0.022	0.01	0.0067	0.00495	0.0115
IQR i	0.263	0.026	0.112	0.0148	0.103	0.067	0.042	0.074	0.0284	0.0111	0.00905	0.0205
Robust CV % i	233	8	65	36	374	118	45	105	105	11	14	6
Median f	0.06	0.244	0.126	0.031	0.02	0.0345	0.0645	0.0465	0.0116	0.0742	0.049	0.25
Mean f	0.0588	0.244	0.129	0.0309	0.0194	0.0326	0.0744	0.045	0.0127	0.0739	0.0485	0.252
MAD f	0.0028	0.009	0.0035	0.003	0.001	0.006	0.0222	0.0049	0.0006	0.0038	0.004	0.005
IQR f	0.0042	0.0185	0.006	0.0049	0.00135	0.0106	0.0408	0.0114	0.0016	0.00755	0.005	0.01
Robust CV % f	5	6	4	12	5	23	47	18	10	8	8	3
Outliers	3	1	3	1	5	3	1	3	3	4	3	2
Stragglers	3	1	3	2	2	2	0	2	3	1	0	3

2022: Aqua Regia Cobalt (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	14	14	14	13	16	16	14	16	15	14	15	15
Minimum	10.8	4.62	67.7	0.52	4.6	12.2	1.5	18.2	4	1.4	14.1	4.9
Maximum	14.6	6.65	141	1.52	6.64	18.8	2.37	46.6	6.02	3.5	19.7	6.63
Median i	13.7	5.64	111	1.16	5.56	16.6	1.8	20.7	4.88	2.32	16.7	5.59
Mean i	13.1	5.6	110	1.04	5.6	16.3	1.84	22.2	4.96	2.34	16.6	5.67
MAD i	0.8	0.53	11	0.277	0.3	1.15	0.2	1.05	0.22	0.205	0.7	0.49
IQR i	2.35	0.905	16.5	0.47	0.483	2.2	0.395	1.88	0.455	0.393	1.05	0.83
Robust CV % i	13	12	11	30	6	10	16	7	7	13	5	11
Median f	13.7	5.64	111	1.16	5.56	16.6	1.8	20.6	4.87	2.32	16.7	5.59
Mean f	13.1	5.6	114	1.04	5.6	16.6	1.84	20.6	4.87	2.32	16.7	5.67
MAD f	0.8	0.53	4	0.277	0.3	1.1	0.2	1	0.135	0.19	0.35	0.49
IQR f	2.35	0.905	12.5	0.47	0.483	1.9	0.395	1.85	0.228	0.358	0.775	0.83
Robust CV % f	13	12	8	30	6	8	16	7	3	11	3	11
Outliers	0	0	1	0	0	1	0	1	3	2	1	0
Stragglers	0	0	2	0	0	0	0	0	2	0	2	0

2022: Aqua Regia Chromium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	15	15	15	15	17	17	17	17	15	15	15	15
Minimum	13	17	131	46.8	8	27	4	39.5	48	17	15	16
Maximum	20	31.4	315	112	31	49.6	16.1	56.9	80.3	47.2	34.5	28.4
Median i	16.7	22.6	260	95	12.5	36	8.01	46.2	59.4	32.5	23.2	22
Mean i	16.6	22.9	261	89.6	14	36	9.05	46.3	62.5	33.2	23.5	22.9
MAD i	1.9	2.2	29	8.7	3.1	4	2.41	3.1	2.6	6.1	5.2	3
IQR i	3.2	4.25	50.5	14.3	5.7	8	4.8	6.1	10.3	15.4	8.3	6.3
Robust CV % i	14	14	14	11	34	16	44	10	13	35	27	21
Median f	16.7	22.2	260	95.4	12.4	36	8.01	46.2	58.3	32.5	23.2	22
Mean f	16.6	22.3	271	92.7	11.9	36	9.05	46.3	59	33.2	23.5	22.9
MAD f	1.9	1.9	25.5	6.4	2.4	4	2.41	3.1	1.1	6.1	5.2	3
IQR f	3.2	3.43	47.5	14	3.25	8	4.8	6.1	2.2	15.4	8.3	6.3
Robust CV % f	14	11	14	11	19	16	44	10	3	35	27	21
Outliers	0	1	1	1	2	0	0	0	4	0	0	0
Stragglers	0	0	0	0	0	0	0	0	2	0	0	0

2022: Aqua Regia Copper (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	17	17	17	16	19	19	19	19	16	17	17	17
Minimum	0.55	9.86	40.1	2.4	20.2	17.7	7.7	15.9	1.51	6.6	17	11.4
Maximum	12	14.7	86.4	5.52	28.6	29.5	11.9	28.4	13	23.1	34.4	27.5
Median i	8.26	13	69.5	4.03	22.4	25	9.2	23.7	2.46	11.9	18.9	13
Mean i	7.99	12.7	67.5	4.06	22.9	24.6	9.49	23.1	3.06	12.7	20.3	14
MAD i	1.16	1.1	8.3	0.455	1.3	1	0.53	1.6	0.41	1.1	1.1	0.8
IQR i	2.31	2.8	15.3	0.93	3.05	2	1.66	3.15	0.605	2.1	2.2	1.2
Robust CV % i	21	16	16	17	10	6	13	10	18	13	9	7
Median f	8.34	13	69.5	4.03	22.3	25	9.13	23.7	2.43	11.9	18	13
Mean f	8.46	12.7	67.5	4.06	22.6	25.1	9.03	23.8	2.4	12	18.6	12.7
MAD f	1.15	1.1	8.3	0.455	1.25	0.5	0.37	1.3	0.33	0.75	0.7	0.35
IQR f	2.15	2.8	15.3	0.93	2.78	1.05	0.52	2.9	0.505	1.65	1.4	0.825
Robust CV % f	19	16	16	17	9	3	4	9	15	10	6	5
Outliers	1	0	0	0	1	7	1	2	1	3	3	3
Stragglers	0	0	0	0	0	1	3	0	0	0	1	2

2022: Aqua Regia Iron (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	16	16	16	16	18	18	18	18	16	16	16	16
Minimum	5	1.87	10.6	0.243	1.02	3.82	0.4	3.65	1.12	0.43	2.28	1.59
Maximum	58300	21500	120000	5440	17800	46800	5120	42300	17000	10600	34300	23800
Median i	43400	16500	92600	4070	10200	36900	4370	36700	10800	6680	22900	16700
Mean i	41400	15600	88200	3840	10800	35700	4150	34100	10600	6660	21300	15800
MAD i	3950	1400	13200	180	725	2850	520	1650	1010	735	4200	1200
IQR i	6150	2730	24100	383	2710	6780	885	3580	1760	1260	6600	2330
Robust CV % i	11	12	19	7	20	14	15	7	12	14	21	10
Median f	43400	16600	92700	4110	9860	37200	4480	36900	10800	6680	23100	17100
Mean f	43600	16700	94000	4090	9810	37800	4390	36500	10900	6850	22700	16900
MAD f	2000	1400	11900	140	410	2800	470	1600	800	670	4300	650
IQR f	4180	2500	23000	270	570	7300	830	2780	1380	1140	6400	1080
Robust CV % f	7	11	18	5	4	15	14	6	9	13	21	5
Outliers	3	1	1	3	5	1	1	2	2	2	1	2
Stragglers	1	0	0	0	2	0	0	0	0	0	0	2

2022: Aqua Regia Potassium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	17	17	17	17	19	19	19	19	17	17	17	17
Minimum	0.036	0.557	0.039	0.014	931	1120	323	1210	1240	813	1310	3420
Maximum	1760	7350	805	385	6040	4160	989	5370	1960	2010	3660	7290
Median i	539	5540	416	249	2430	2480	598	2180	1500	1540	2630	5450
Mean i	715	4980	430	245	2480	2480	629	2640	1530	1510	2620	5350
MAD i	340	580	153	32	1060	640	98	580	120	160	440	610
IQR i	692	1220	281	50	1790	1220	245	1090	170	310	860	940
Robust CV % i	95	16	50	15	54	36	30	37	8	15	24	13
Median f	539	5610	416	249	2430	2480	597	2150	1490	1560	2630	5450
Mean f	715	5560	430	250	2480	2480	609	2230	1500	1560	2620	5350
MAD f	340	490	153	18	1060	640	93.5	525	85	150	440	610
IQR f	692	773	281	32	1790	1220	218	970	158	293	860	940
Robust CV % f	95	10	50	10	54	36	27	34	8	14	24	13
Outliers	0	2	0	3	0	0	1	3	1	1	0	0
Stragglers	0	1	0	1	0	0	0	0	0	0	0	0

2022: Aqua Regia Magnesium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	17	17	17	17	19	19	19	19	17	17	17	17
Minimum	0.057	0.525	0.064	0.016	2440	1220	226	144	0.15	0.08	0.47	0.47
Maximum	973	5970	1160	384	5380	7590	977	2280	1850	1580	6000	6040
Median i	569	4770	652	294	3320	5990	752	1510	1560	1250	5100	5080
Mean i	567	4650	618	277	3400	5610	713	1500	1440	1170	4520	4610
MAD i	99	480	127	25	380	470	69	220	120	90	250	410
IQR i	201	920	187	52	745	1080	165	440	170	170	1050	990
Robust CV % i	26	14	21	13	17	13	16	22	8	10	15	14
Median f	569	4960	659	295	3290	6000	752	1520	1560	1260	5200	5080
Mean f	578	4950	643	294	3290	5850	726	1570	1570	1260	5200	4980
MAD f	95	490	70.5	21.5	335	455	48	220	80	55	95	270
IQR f	169	900	160	36	610	1070	146	435	140	103	170	645
Robust CV % f	22	13	18	9	14	13	14	21	7	6	2	9
Outliers	2	1	2	2	1	1	1	1	2	2	4	1
Stragglers	0	0	1	1	0	0	1	0	0	1	3	1

2022: Aqua Regia Manganese (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	17	17	17	17	18	19	19	19	17	17	17	17
Minimum	577	179	5260	39	14.4	633	30	646	125	36	840	236
Maximum	872	333	7670	85.9	29.2	901	66	825	176	105	1070	326
Median i	743	286	6070	69.5	18.2	790	49	690	140	67.3	968	275
Mean i	730	283	6200	68.2	19.5	785	49.7	702	142	68.8	973	282
MAD i	38	24	460	2.7	1.5	60	5	31	6	6.9	52	15
IQR i	72	43	880	7.1	4.58	105	9.65	58	11	13.8	103	22
Robust CV % i	7	11	11	8	19	10	15	6	6	15	8	6
Median f	747	287	6070	69.5	17.9	790	50	679	137	67.3	968	275
Mean f	740	290	6200	68.7	17.5	785	50.8	690	139	68.6	973	282
MAD f	38	21.5	460	2.2	0.9	60	4.9	21	6	6.8	52	15
IQR f	66.3	42.3	880	3.55	1.3	105	9.4	37	9	12.6	103	22
Robust CV % f	7	11	11	4	5	10	14	4	5	14	8	6
Outliers	1	1	0	5	3	0	1	1	2	2	0	0
Stragglers	0	0	0	1	2	0	0	1	0	0	0	0

2022: Aqua Regia Molybdenum (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	11	10	11	12	13	14	13	13	13	13	13	13
Minimum	0.591	0.22	0.309	1.57	0.05	0.01	0.005	0.1	0.58	1.3	0.0264	0.11
Maximum	1.14	0.609	2.64	3.53	0.714	2.5	0.826	0.939	2.7	10.9	0.484	0.938
Median i	0.811	0.399	1.2	2.7	0.338	0.2	0.286	0.63	2.1	2.25	0.289	0.416
Mean i	0.81	0.393	1.37	2.55	0.355	0.353	0.291	0.545	2.01	2.82	0.257	0.436
MAD i	0.062	0.05	0.14	0.485	0.138	0.075	0.056	0.193	0.15	0.41	0.111	0.063
IQR i	0.127	0.0883	0.715	0.92	0.26	0.135	0.088	0.395	0.27	0.6	0.19	0.135
Robust CV % i	12	16	44	25	57	50	23	46	10	20	49	24
Median f	0.811	0.399	1.18	2.7	0.338	0.2	0.286	0.63	2.1	2.1	0.289	0.416
Mean f	0.798	0.393	1.19	2.55	0.355	0.188	0.264	0.545	2.08	2.02	0.257	0.42
MAD f	0.041	0.05	0.09	0.485	0.138	0.074	0.028	0.193	0.1	0.33	0.111	0.051
IQR f	0.08	0.0883	0.145	0.92	0.26	0.11	0.07	0.395	0.19	0.655	0.19	0.093
Robust CV % f	7	16	9	25	57	41	18	46	7	23	49	17
Outliers	1	0	5	0	0	1	2	0	3	1	0	2
Stragglers	1	0	0	0	0	0	2	0	1	1	0	0

2022: Aqua Regia Sodium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	16	16	16	15	17	18	18	18	15	16	16	15
Minimum	0.006	0.011	0.015	0.001	2300	0.27	0.03	0.03	58.9	216	807	80
Maximum	97.3	143	238	45	3160	648	378	229	118	562	1210	141
Median i	66.2	112	177	26.7	2630	379	252	79.5	97.6	419	1030	117
Mean i	60.1	107	145	26.3	2680	383	249	94.6	96	407	1030	118
MAD i	16.6	23.5	43	5.6	210	76.5	35	24	7.6	34.5	90	11
IQR i	28	35.2	111	9.9	350	132	65	43.2	15.8	65	177	18.5
Robust CV % i	31	23	47	27	10	26	19	40	12	11	13	12
Median f	68.2	113	186	27.1	2630	379	254	77.1	98.3	428	1030	117
Mean f	64.1	115	166	28.2	2680	390	264	77.7	98.7	421	1030	118
MAD f	15	21	38.5	4.75	210	55	34	19.2	7	29	90	11
IQR f	25.3	29	68.5	8.98	350	90.8	54	34.8	12.9	58	177	18.5
Robust CV % f	27	19	27	25	10	18	16	33	10	10	13	12
Outliers	1	1	2	1	0	1	1	3	1	3	0	0
Stragglers	0	0	0	0	0	1	0	1	0	0	0	0

2022: Aqua Regia Lead (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	14	14	14	14	16	16	16	16	14	15	15	15
Minimum	1.41	6.42	1.6	4	10	6	19	12.5	3.47	12	6.88	9.28
Maximum	12.8	14.9	14.9	13	16	14.3	29.3	18.3	8.6	40.2	15.4	15.6
Median i	10	12.5	10.9	7.52	11.6	10.4	24	15.4	6.23	23.6	10.9	12.2
Mean i	9.07	12.1	10.3	7.66	11.8	10.2	24	15.3	6.03	23.9	10.8	12.4
MAD i	0.88	1.3	1.2	0.55	0.55	0.98	1.25	1.05	0.765	2.8	0.9	0.6
IQR i	1.59	2.5	2.08	0.885	1.03	1.89	2.38	1.95	1.3	4.3	1.5	1.4
Robust CV % i	12	15	14	9	7	13	7	9	15	14	10	9
Median f	10.5	12.7	11.3	7.52	11.4	10.4	24	15.4	6.23	23.3	10.9	12.2
Mean f	10.5	12.5	12	7.47	11.2	10.2	23.9	15.3	6.03	22.9	10.7	12.2
MAD f	0.8	1	1	0.12	0.5	0.9	1.1	1.05	0.765	1.6	0.4	0.6
IQR f	1.15	1.9	2.55	0.203	0.9	1.6	2.15	1.95	1.3	3.5	1	1.05
Robust CV % f	8	11	17	2	6	11	7	9	15	11	7	6
Outliers	3	1	3	2	2	2	2	0	0	2	2	3
Stragglers	0	0	0	2	1	0	0	0	0	1	2	0

2022: Aqua Regia Sulphur (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	13	13	13	13	12	14	14	13	12	13	13	13
Minimum	0.04	0.02	0.03	0.01	1	120	177	80	49	460	140	178
Maximum	430	471	469	261	350	499	277	512	95.5	998	332	345
Median i	333	220	276	221	32.1	144	225	100	58.8	729	199	227
Mean i	321	223	279	205	63.5	184	224	134	63.3	723	208	240
MAD i	38	40	57	24	13	13	14.5	15	6.55	60	30	11
IQR i	75	69	147	46	41.8	78.3	28	33	15.2	119	63	29
Robust CV % i	17	23	39	15	97	40	9	24	19	12	23	9
Median f	334	220	289	223	30.5	139	225	97.5	54.5	729	190	226
Mean f	347	227	302	222	37.4	137	224	102	60.4	722	198	229
MAD f	31	22	69.5	23	9.5	8	14.5	10	5.5	59	20.5	5.5
IQR f	73.3	32	125	38	32.6	15	28	20.3	12.9	97.5	49	12
Robust CV % f	16	11	32	13	79	8	9	15	17	10	19	4
Outliers	1	3	1	1	1	4	0	1	1	2	1	5
Stragglers	0	1	0	0	0	0	0	0	0	0	0	0

2022: Aqua Regia Selenium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	8	7	8	7	8	8	8	9	9	9	9	9
Minimum	0.26	0.1	0.125	0.01	0.1	0.3	0.23	0.2	0.0924	0.108	0.0506	0.0446
Maximum	2.2	0.671	3.6	0.377	3.04	3.03	1.24	20	0.97	0.725	1.99	1.03
Median i	0.965	0.39	0.853	0.263	0.398	1.25	0.569	1.03	0.214	0.324	0.77	0.37
Mean i	1.1	0.353	1.43	0.225	0.989	1.4	0.619	3.17	0.37	0.369	0.813	0.469
MAD i	0.344	0.078	0.691	0.097	0.198	0.552	0.255	0.528	0.104	0.164	0.319	0.186
IQR i	0.75	0.244	1.84	0.197	1.09	0.953	0.451	1.03	0.329	0.303	0.549	0.296
Robust CV % i	58	46	159	55	203	56	59	74	114	69	53	59
Median f	0.965	0.39	0.853	0.263	0.307	1.25	0.569	0.956	0.189	0.324	0.77	0.37
Mean f	1.1	0.353	1.43	0.225	0.3	1.4	0.619	1.06	0.223	0.369	0.813	0.469
MAD f	0.344	0.078	0.691	0.097	0.078	0.552	0.255	0.383	0.079	0.164	0.319	0.186
IQR f	0.75	0.244	1.84	0.197	0.085	0.953	0.451	0.59	0.117	0.303	0.549	0.296
Robust CV % f	58	46	159	55	21	56	59	46	46	69	53	59
Outliers	0	0	0	0	2	0	0	1	2	0	0	0
Stragglers	0	0	0	0	1	0	0	0	0	0	0	0

2022: Aqua Regia Silicon (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	8	8	8	8	9	9	9	9	8	8	8	8
Minimum	20	40	23	4	257	197	180	180	270	310	280	280
Maximum	1210	1560	1510	831	2590	2170	2780	2840	1540	1050	2540	2200
Median i	562	965	622	498	850	764	540	764	634	581	846	847
Mean i	631	886	691	495	907	828	775	859	756	637	1070	949
MAD i	120	382	182	98.5	430	506	216	376	234	155	523	482
IQR i	289	803	355	182	730	860	426	703	483	362	1130	795
Robust CV % i	38	62	42	27	64	83	58	68	56	46	99	70
Median f	558	965	597	505	850	764	500	712	634	581	846	847
Mean f	534	886	573	565	907	828	524	612	756	637	1070	949
MAD f	53	382	167	82	430	506	216	318	234	155	523	482
IQR f	61	803	248	175	730	860	425	635	483	362	1130	795
Robust CV % f	8	62	31	26	64	83	63	66	56	46	99	70
Outliers	2	0	1	1	0	0	1	1	0	0	0	0
Stragglers	1	0	0	0	0	0	0	0	0	0	0	0

2022: Aqua Regia Zinc (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified

Statistical parameters	Soil sample identification and values											
	March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
	ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
No of results	17	17	17	17	19	19	19	19	17	17	17	17
Minimum	43	20	101	4.6	43	24	23.5	31	9.7	21	33	19
Maximum	77.3	39.6	236	11.2	86.3	75.1	36	57.7	17.3	48.5	61.7	35.5
Median i	65.1	31	168	7.65	53.5	43.6	29	40.7	12.1	37.3	50.7	29.3
Mean i	63.4	30.3	174	7.65	54.8	42.8	29.2	40.7	12.4	37.7	49.9	28.9
MAD i	5.5	2.7	31	0.58	6.5	5.5	2.3	3.7	1.1	2.4	6.7	2.6
IQR i	7.4	5.6	41	1.11	10.6	10.5	4.7	7.05	2.3	5.1	10.2	4.3
Robust CV % i	8	13	18	11	15	18	12	13	14	10	15	11
Median f	65.4	31.3	168	7.65	53.3	43.6	29	40.4	12.1	37.3	50.7	29.8
Mean f	64.7	30.9	174	7.62	53	42	29.2	39.7	12.1	38.1	49.9	29.6
MAD f	4.35	2.85	31	0.55	5.05	5.4	2.3	3.4	0.95	2.3	6.7	2.15
IQR f	6.45	5.05	41	1.07	8.83	9.9	4.7	6.9	1.53	4.5	10.2	4.13
Robust CV % f	7	12	18	10	12	17	12	13	9	9	15	10
Outliers	1	1	0	2	1	1	0	1	1	2	0	1
Stragglers	0	0	0	0	0	1	0	0	0	0	0	0

4. Comments on Measurement Performance

The 12 soils tested in the 2022 program were sourced from 4 Australian states and represented a variety of soil types, as shown in Table 2.3. There were 7 new soils presented to laboratory participants with 1 of these new samples repeated twice in rounds 1 and 3. There were 4 soils that had been tested previously in 2006, 2009, 2021

The program's soils in 2022 included a variety of Total Organic Carbon, Phosphorus and Cation Exchange Capacity contents representing a broad range of concentrations typically tested by laboratories throughout Australasia. A quarter of the soils were alkaline, calcareous soils with high clay contents and at least 3 soils were likely dispersive sodic, non-saline soils based on their chemical composition. There were 4 acidic samples with measurable amounts of Aluminium between 0.201 and 0.983 cmol(+)/kg, and an interlaboratory CV% between 12 and 24%. The remaining samples with no measurable Aluminium returned high CV%, as would be expected from labs reporting "as measured" non-detectable concentrations.

No notable shift in test method performance was observed if considering the median of the 12 sample's coefficient of variations for each test method. As reported in Table 4.1, test methods with the widest and most narrow precision in 2022 were of a similar nature to the last few years with the best performing test methods comprised of exchangeable and Mehlich 3 extractable cations, Electrical Conductivity and Dumas combustion techniques. The test methods with less interlaboratory precision continued to include aqua regia digestible elements, exchangeable Aluminium and Bray Phosphorus.

Table 4.1. The six best performed and worst performed soil chemical tests for 2022, based on the median percent robust coefficients of variation (%CV as grand medians) of all twelve samples, after the removal of "outliers" and "stragglers", and excluding pH soil tests which are logarithmic and have been shown over the years to be in the range 1 - 2% CV.

Best (Lowest* (%CV as grand medians*)	
Soil Method	***%CV***
Extractable Mg (Mehlich 3, 18F1)	3
Electrical Conductivity (3A1)	4
Exchangeable Ca (15D3)	4
Exchangeable K (15D3)	4
Exchangeable Mg (15D3)	4
Extractable K (Mehlich 3, 18F1)	4
Exchangeable Na (15D3)	4.5
Extractable Ca (Mehlich 3, 18F1)	4.5

Worst (Highest* (%CV as grand medians*)	
Soil Method	***%CV***
Aqua Regia Arsenic (17A2 + 17B1 + 17B2 + 17C1)	23
Bray-1 Extractable P (9E1 + 9E2)	25
Aqua Regia Aluminium (17A2 + 17B1 + 17B2 + 17C1)	25
Aqua Regia Potassium (17A2 + 17B1 + 17B2 + 17C1)	25.5
Aqua Regia Boron (17A2 + 17B1 + 17B2 + 17C1)	38
Exchangeable Al — 1M KCl (15G1)	44.5
Aqua Regia Selenium (17A2 + 17B1 + 17B2 + 17C1)	55.5
Aqua Regia Silicon (17A2 + 17B1 + 17B2 + 17C1)	62.5

Appendix 1: List of laboratories (including contact details) that participated in ASPAC's Soil ILPP in 2022, arranged by country

Name (Position)	*Facility*	*Street and / or Postal Address*	*Country*	*Email*
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Janine McGowan	CSIRO Soil Carbon & Nutrient Cycling Lab	Gate 4, Waite Road, Urrbrae, South Australia 5064	AUSTRALIA	janine.Mcgowan@csiro.au
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Subashini Munasinghe (Strategic Project and Technical Manager)	Dual Chelate Fertilizer Pty Ltd	162 New Guinea Road, Robinvale, Victoria 3549	AUSTRALIA	suba@dualchelate.com

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My Chi Mai (Analytical Services Chemist)	Sydney Environmental and Soil Laboratory	16 Chilvers Road, Thornleigh, NSW 2120	AUSTRALIA	mychi@sesl.com.au
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Appendix 2: Homogeneity data and statistical assessments* for Total Soil N% (Dumas N) on the 12 soils in ASPAC's 2022 ILPP

Sample Name		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
Sub-sample													
1	Rep 1	0.238	0.145	0.168	0.233	0.029	1.58	0.137	0.076	0.059	0.229	0.124	0.145
	Rep 2	0.243	0.150	0.170	0.260	0.027	1.57	0.138	0.074	0.058	0.241	0.124	0.150
2	Rep 1	0.250	0.149	0.166	0.255	0.029	1.57	0.135	0.075	0.055	0.234	0.124	0.149
	Rep 2	0.251	0.149	0.166	0.229	0.027	1.59	0.134	0.074	0.054	0.233	0.124	0.149
3	Rep 1	0.239	0.147	0.167	0.238	0.029	1.59	0.124	0.076	0.056	0.262	0.124	0.147
	Rep 2	0.238	0.148	0.164	0.246	0.027	1.60	0.129	0.077	0.058	0.251	0.124	0.148
4	Rep 1	0.250	0.150	0.166	0.213	0.028	1.61	0.134	0.075	0.058	0.245	0.125	0.150
	Rep 2	0.248	0.149	0.166	0.230	0.027	1.57	0.132	0.075	0.058	0.232	0.126	0.149
5	Rep 1	0.236	0.153	0.166	0.232	0.028	1.58	0.136	0.076	0.056	0.240	0.124	0.153
	Rep 2	0.243	0.149	0.166	0.230	0.025	1.57	0.133	0.074	0.056	0.247	0.123	0.149
6	Rep 1	0.245	0.152	0.164	0.210	0.028	1.54	0.134	0.075	0.056	0.247	0.125	0.152
	Rep 2	0.244	0.152	0.164	0.232	0.027	1.59	0.130	0.077	0.056	0.235	0.125	0.152
7	Rep 1	0.240	0.150	0.163	0.224	0.027	1.58	0.132	0.077	0.053	0.251	0.123	0.150
	Rep 2	0.243	0.147	0.166	0.250	0.028	1.57	0.133	0.076	0.055	0.253	0.124	0.147
8	Rep 1	0.236	0.156	0.166	0.237	0.027	1.56	0.130	0.076	0.053	0.226	0.124	0.156
	Rep 2	0.242	0.153	0.168	0.241	0.028	1.59	0.134	0.076	0.056	0.236	0.125	0.153
9	Rep 1	0.245	0.159	0.165	0.227	0.027	1.57	0.129	0.078	0.052	0.235	0.125	0.159
	Rep 2	0.244	0.150	0.165	0.241	0.025	1.57	0.131	0.075	0.056	0.228	0.124	0.150
10	Rep 1	0.240	0.154	0.171	0.226	0.028	1.58	0.134	0.077	0.054	0.243	0.124	0.154
	Rep 2	0.239	0.144	0.169	0.225	0.028	1.58	0.130	0.076	0.054	0.241	0.124	0.144

Mean	0.24	0.15	0.17	0.23	0.027	1.58	0.13	0.08	0.06	0.24	0.12	0.15
Analytical SD	0.00001	0.00001	0.000002	0.0002	0.000001	0.0002	0.000005	0.000001	0.000002	0.00004	0.000001	0.00001
Sampling SD	0.00001	0.000001	0.000002	0.000004	0	0	0.000006	0	0.000002	0.00005	0.000001	0.000001
SD proficiency data	0.013	0.012	0.014	0.013	0.006	0.003	0.011	0.011	0.005	0.015	0.006	0.008
Status	**H**	**H**	**H**	**H**	**H**	**H**	**H**	**H**	**H**	**H**	**H**	**H**

* Homogeneity statistics calculated according to *Thompson, M., Ellison, S.L.R. and Wood, R. (2006). "The International Harmonised Protocol For the Proficiency Testing of Analytical Chemistry Laboratories." Pure Appl. Chem. Vol. 78, No. 1, pp. 145-196. IUPAC Technical Report*

Appendix 3: Statistical procedures used by ASPAC for its contemporary soil ILPP

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 7 or greater) laboratories. See references in the body of the report for more details. Also, the median (μ) is regarded as a good estimate of the true mean, while the MAD; i.e., 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" of5% (two tailed), with n-1 degrees of freedom]. Note that for program reports up to and including 2009-10, Student "t's" of 2.5% (two-tailed) were used.

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, relevant laboratories were rated as "stragglers" (†). The revised Student "t" at 5% (two tailed) makes the test slightly stricter than previously.

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

Appendix 4: "Raw" 2022 soil data reported by laboratories for 12 samples across three "rounds"

These 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. The soil method codes are those of Rayment and Lyons (2011), referenced earlier.

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Air-Dry Moisture Content 2A1 (%)											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
8888	2A1	1.83	2.56	5.37	1.32	4.3	8.63	1.09	1.79	0.81	1.48	5.76	3.06
10156	2A1	2.11	2.66	5.04	1.22	4.44	7.92	1.13	1.69	1.08	1.47	3.37 ††	5.98 ††
10173	2A1	2.03	2.81	5.34	1.28	4.6	7.2	0.8	1.5	0.88	1.19 †	5.35	2.9
10181	2A1	2.68	3.37	5.85	1.59	4.93	8.19	1.29	1.86	1.28	1.69	6.94	3.51
21043	2A1	2.3	3	5.7	1.4								
21088	2A1	2.3	3.2	5.5	1.3	4.5	7.1	0.69	1.2	1.08	1.28	5.72	3.07
21088	2A1					4.5	7.1	0.7	1.2				
21100	2A1	2.18	2.88	5.4	1.2	4.82	7.5	1.16	1.59	1.23	1.54	6.07	3.3
21138	2A1	2	2.5	4.9	1.1	4.3	7.5	0.9	1.4	1.26	1.79 †	6.92	3.7
21182	2A1									1	1.4	5.6	3
21190	2A1					4.44	7.47	0.899	1.8	1.19	1.62	6.57	3.46
21193	2A1	2.32	3.08	5.98	1.23	4.86	7.74	1.13	1.77	1.23	1.54	6.58	3.43
21230	2A1	2.28	2.91	5.7	1.29	5.02	8.35	1.16	1.74	5.02 ††	8.35 ††	1.16 ††	1.74 ††
50002	2A1	2.94 ††	2.7	5.19	5.29 ††	3.87 †	6.76	0.85	1.34	1	1.52	5.33	3.76
50005	2A1	1.95	2.84	4.69	1.39	4.15	6.67	0.981	1.49	1.19	1.46	5.85	2.96
50006	2A1					4.82	8.28	1.22	1.52	0.959	1.42	6.67	3.04
50007	2A1	2.44	3.13	5.59	1.49	5.11	8.25	1.18	1.87	1.21	1.62	6.59	3.23
50011	2A1	2.43	3.23	5.64	1.38	4.78	7.82	1.01	1.78	1.27	1.59	6.53	3.36
50012	2A1	3.2 ††	4 ††	6.3	1.9 ††	4.7	7.73	1.08	1.57	1.5	1.97 ††	6.78	3.87
50014	2A1	2.35	3.23	6.07	1.44	5.24	7.57	1.18	1.64	1.23	1.64	6.4	3.44
50017	2A1									0.48 ††	0.98 ††	4.42 ††	1.93 ††
50018	2A1	2.03	2.66	4.44 ††	1.24	4.38	7.48	0.984	1.61	0.841	1.44	6.11	3.01
50019	2A1	2.6	3.3	5.9	1.8 ††	2.6 ††	3.3 ††	5.9 ††	1.8	1.26	1.73	6.47	3.42
50020	2A1					4.35	7.35	0.9	1.45				
50023	2A1	2.49	3.35	5.87	1.53	4.86	7.94	1.09	1.61	1.14	1.52	6.78	3.35
50024	2A1	2.49	3.08	5.88	1.5	4.73	8.34	1.03	1.66	0.92	1.41	5.83	2.92
50027	2A1	2.61	3.13	5.49	1.5	4.98	7.56	1.21	1.87	1.15	1.57	6.38	3.42

50029	2A1	2.11	2.86	5.6	1.34	4.45	7.25	1.07	1.42	1.07	1.41	5.32	2.98
50032	2A1	2.14	2.88	5.81	1.11	4.76	7.4	1.32	1.73				
50033	2A1	2.4	3	5.2	1.4	5.3	8.1	1.4	1.8	1.6 ††	1.5	7	3.6
50036	2A1	2.4	3.2	5.4	1.4	4.3	7.4	0.9	1.5	1.1	1.4	5.7	3.1
50038	2A1	2.09	2.99	5.29	1.32	5.15	7.97	1.04	1.75	1.16	1.54	6.64	3.54
50039	2A1	2.3	2.81	5.7	1.29	4.46	8.32	0.95	1.65	1	1.35	6.05	3.11
52508	2A1					4.61	7.69	1.04	1.5				
52526	2A1	2.3	3	5	1.1	4.8	8.1	1.2	1.8	0.9	1.3	5.3	2.7
52527	2A1	1.86	2.35 ††	4.98	1.02	4	6.7	0.6 ††	1.4	0.777	1.39	5.86	3.28
52565	2A1	2.41	2.89	5.32	1.23	4.45	7.85	0.862	1.54	1.07	1.49	6.71	3.37
52636	2A1	2.32	3.04	5.4	1.36	4.9	8.45	1.25	1.74	1.14	1.61	6.71	3.38
52688	2A1	2.8	3.25	5.59	1.6	4.8	8	1.5	2.1	1.4	1.9 ††	6.8	3.7
52692	2A1	2.2	3.1	4.6	1.3	5.2	7.8	1.1	2.1	1.37	1.5	6.61	3.57
52847	2A1									1.05	1.21	5.42	2.63
52874	2A1	2.08	2.24 ††	2.13 ††	1.1	4.74	8.1	0.93	1.38				
52880	2A1	2.53	3.08	5.21	1.5	4.42	7.48	0.85	1.57	0.85	1.13 ††	5.48	2.88
52907	2A1	2.32	3.03	5.42	1.39	4.92	8.2	1.17	1.88	1.06	1.57	6.75	3.28

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Electrical Conductivity 1:5 soil-water (3A1) dS/m											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10156	3A1	0.204 ††	0.296 ††	0.103 ††	0.168 ††	0.43	0.231	0.379 ††	0.0736	0.053 ††	1.03	0.29 ††	0.409 ††
10173	3A1	0.173	0.247	0.080	0.132	0.369 †	0.218	0.345	0.0689	0.042	1.04	0.417	0.261
10181	3A1	0.167	0.252	0.082	0.127	0.421	0.253	0.33	0.064	0.041	0.99	0.432	0.256
20204	3A1	0.162	0.209 ††	0.08	0.126	0.41	0.22	0.33	0.055 ††	0.039	0.92	0.379	0.239
21043	3A1	0.164	0.251	0.08	0.135								
21083	3A1					0.48 ††	0.23	0.36	0.077 ††	0.04	1.06	0.48 ††	0.28 ††
21088	3A1	0.18	0.29 ††	0.09	0.15	0.48 ††	0.3 ††	0.37	0.074	0.0442	1.05	0.571 ††	0.268
21100	3A1	0.168	0.235	0.081	0.131	0.422	0.228	0.345	0.0683	0.0447	1.03	0.407	0.256
21104	3A1					0.372 †	0.207	0.293 ††	0.06				
21138	3A1	0.16	0.25	0.08	0.13	0.39	0.21	0.34	0.07	0.0374	0.954	0.389	0.243
21182	3A1									0.038	0.948	0.599 ††	0.24
21190	3A1					0.407		0.344	0.067	0.045	0.955	0.46 †	0.285 ††
21193	3A1	0.178	0.25	0.082	0.137	0.433	0.222	0.344	0.066	0.037	0.98	0.414	0.243
21229	3A1	0.17	0.262	0.095	0.147	0.408	0.24	0.343	0.067	0.041	1.01	0.401	0.248
21230	3A1	0.151 ††	0.217 †	0.075	0.121	0.412	0.218	0.336	0.065	0.231 ††	0.038 ††	0.927 ††	0.345 ††
21232	3A1	0.173	0.25	0.084	0.137	0.372 †	0.245	0.333	0.066	0.042	1.02	0.4	0.254
21234	3A1									0.485 ††	9.45 ††	4.11 ††	0.229 ††
50002	3A1	0.18	0.27	0.1 ††	0.15	0.45 †	0.3 ††	0.34	0.07	0.0499 ††	0.0011 ††	0.0005 ††	0.35 ††
50005	3A1	0.154	0.221 †	0.075	0.124	0.405	0.266 †	0.335	0.0648	0.0415	0.971	0.419	0.254
50006	3A1					0.227 ††	0.155 ††	0.204 ††	0.038 ††	0.032 ††	0.747 ††	0.293 ††	0.178 ††
50011	3A1	0.168	0.251	0.083	0.126	0.412	0.232	0.319	0.063	0.04	0.948	0.405	0.251
50012	3A1	0.179	0.25	0.087	0.142	0.306 ††	0.245	0.371	0.083 ††	0.0423	0.961	0.385	0.243
50013	3A1	0.186	0.275	0.089	0.132	0.455 †	0.262 †	0.355	0.067	0.036 †	0.938	0.415	0.249
50014	3A1	0.18	0.27	0.09	0.15	0.433	0.241	0.342	0.071	0.077 ††	0.978	0.443	0.271
50017	3A1	0.148 ††	0.243	0.102 ††	0.168 ††					0.0416	0.934	0.377	0.244
50018	3A1	0.171	0.231	0.081	0.125	0.41	0.225	0.338	0.0661	0.0419	1.01	0.391	0.253
50019	3A1	0.178	0.254	0.092	0.138	0.84 ††	0.44 ††	0.68 ††	0.13 ††	0.04	1.02	0.39	0.25
50020	3A1					0.41	0.24	0.33	0.06				
50023	3A1	0.172	0.253	0.087	0.139	0.414	0.226	0.325	0.067	0.041	0.977	0.405	0.248
50024	3A1	0.177	0.258	0.086	0.144	0.415	0.23	0.355	0.071	0.042	1.11 †	0.396	0.254
50025	3A1	0.161	0.232	0.078	0.124	0.375	0.216	0.316	0.063	0.041	0.981	0.384	2.52 ††
50027	3A1	0.167	0.247	0.082	0.136	0.417	0.224	0.348	0.068	0.042	0.966	0.401	0.258
50029	3A1	0.169	0.262	0.083	0.132	0.313 ††	0.239	0.328	0.065	0.0383	0.908	0.405	0.251
50032	3A1	0.17	0.245	0.084	0.142	0.386	0.231	0.349	0.066				
50033	3A1	0.175	0.264	0.089	0.136	0.46 †	0.27 ††	0.33	0.07	0.038	0.934	0.478 ††	0.25
50036	3A1	0.185	0.274	0.087	0.143	0.449	0.281 ††	0.356	0.072	0.045	1.02	0.477 ††	0.288 ††

50038	3A1	0.193		0.281	†	0.096		0.157		0.4		0.231		0.343		0.065		0.046		1.07		0.442		0.268	
50042	3A1	0.127	††	0.196	††	0.077		0.078	††	0.33	††	0.195	†	0.192	††	0.043	††								
52283	3A1	0.209	††	0.284	†	0.218	††	0.127		0.396		0.226		0.315		0.073		0.043		0.917		0.368		0.241	
52386	3A1	0.17		0.24		0.08		0.46	††	0.416		0.22		0.353		0.069		0.05	††	1.14	††	0.43		0.27	
52387	3A1	0.207	††	0.29	††	0.101	††	0.171	††	0.364	†	0.231		0.364		0.0677		0.0447		1.13	††	0.422		0.261	
52491	3A1	0.174		0.258		0.084		0.146		0.416		0.217		0.337		0.0676									
52494	3A1	0.183		0.268		0.094		0.154		0.222	††	0.23		0.335		0.07		0.043		1.01		0.411		0.26	
52508	3A1									0.3	††	0.237		0.329		0.064									
52526	3A1	0.187		0.277		0.092		0.152		0.428		0.274	††	0.35		0.068		0.04		1.01		0.423		0.257	
52527	3A1	0.206	††	0.263		0.084		0.139		0.49	††	0.319	††	0.407	††	0.078	††	0.044		1.1		0.475	††	0.282	††
52565	3A1	0.179		0.258		0.09		0.14		0.423		0.226		0.34		0.0672		0.042		1.01		0.398		0.255	
52636	3A1	0.19		0.25		0.09		0.14		0.4		0.22		0.34		0.07		0.04		1.03		0.4		0.26	
52673	3A1	0.278	††	0.266		0.14	††	0.248	††	0.977	††	0.247		0.487	††	0.087	††	0.118	††	2.48	††	1.07	††	0.657	††
52676	3A1									0.44		0.298	††	0.353		0.133	††								
52692	3A1	0.12	††	0.44	††	0.16	††	0.14		0.17	††	0.17	††	0.27	††	0.05	††	0.034	††	0.844	††	0.326	††	0.199	††
52874	3A1	0.188				0.089		0.143		0.424		0.224		0.372	†	0.07		0.0431		1.15	††	0.438		0.269	
52894	3A1																	0.297	††	0.686	††	0.549	††	0.361	††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Soil pH, 1:5 soil-water (4A1 + 4A3)											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
10156	4A1	4.76	8.16	6.27	4.5					6.2	7.31	8.11	8.14
10166	4A1	4.96	8.11	6.33	4.64					6.23	7.36	8.09	8.12
10173	4A1	5.03	8.31	6.29	4.78	6.82 ††	8.19	7.37	5.1	6.25	7.3	7.96 †	8.2
10181	4A1	4.94	8.33	6.37	4.67	5.84	8.41	7.33	5.01	6.63	7.41	8.15	8.28
20204	4A1	4.85	8.3	6.4	4.62	5.77	8.24	7.23	4.76	6.32	7.59	8.18	8.24
21043	4A1	4.66 †	8.01	6.16	4.38 ††								
21083	4A1					5.7	8	7.2	4.9	6.4	7.4	8	8.2
21088	4A1	5.03	8.18	6.37	4.73	5.8	8.2	7.3	4.9	6.5	7.52	8.1	8.22
21100	4A1	4.81	8.17	6.11	4.45 †	5.85	8.36	7.3	4.97	6.45	7.52	8.22	8.18
21104	4A1					7.4 ††	8.3	7.2	5				
21138	4A1	4.9	8.2	6.2	4.6	6 †	8.3	7.3	5	6.52	7.47	8.18	8.25
21182	4A1									6.3	7.5	8.2	8.3
21190	4A1					5.75	6.65 ††	6.56 ††	6.39 ††	6.05	6.4 ††	7.29 ††	7.22 ††
21193	4A1	4.8	8.19	6.15	4.51	5.75	8.3	7.03 ††	4.51 ††	6.29	7.48	8.16	8.2
21215	4A1					7.1 ††	7.1 ††	6.7 ††	5.6 ††	6.7 †	7.4	7.5 ††	7.8 ††
21229	4A1	4.88	8.3	6.28	4.63	5.88	8.37	7.36	4.98	6.61	7.47	8.25	8.34 ††
21230	4A1	4.46 ††	7.76 ††	6.02	4.2 ††	5.67	8.04	7.13 ††	4.74	6.38	7.41	8.07	8.16
21232	4A1	4.94	8.12	6.26	4.67	5.8	8.25	7.27	4.88	6.15	7.36	8.09	8.13
21234	4A1									6.08	7.3	8.03	8.14
50002	4A1	4.8	7.6 ††	6.3	4.6	5.2 ††	7.5 ††	7 ††	6 ††	5 ††	6.3 ††	6.9 ††	7 ††
50005	4A1	4.92	8.3	6.38	4.63	5.79	8.46	7.3	4.93	6.36	7.53	8.22	8.22
50006	4A1					5.47 ††	6.76 ††	6.4 ††	4.81	5.71 ††	6.79 ††	7.35 ††	7.5 ††
50011	4A1	4.93	8.23	6.39	4.62	5.86	8.39	7.36	5.01	6.76 ††	7.46	8.25	8.31 †
50012	4A1	5.3 ††	7.81 ††	6.94 ††	4.64	6.18 ††	8.19	7.3	4.85	6.39	7.35	8.09	8.17
50013	4A1	4.73	8.13	6.1	4.5	5.7	8.3	7.3	4.8	6.2	7.5	8.2	8.2
50014	4A1	4.82	8.11	6.24	4.56	5.81	8.24	7.39	4.85	6.04	7.37	8.07	8.16
50017	4A1	4.48 ††	8.22	6.2	4.42 †					6.29	7.39	8.16	8.16
50018	4A1	4.98	8.3	6.34	4.63	5.82	8.29	7.29	4.87	6.42	7.53	8.23	8.22
50019	4A1	4.9	8.2	6.75 ††	4.6	8 ††	7.9 †	7.5 ††	4.8	8.6 ††	8.1 ††	8.85 ††	8.5 ††
50020	4A1					5.86	7.88 †	7.24	4.89				
50023	4A1	4.85	8.16	6.21	4.56	5.71	8.02	7.15 †	4.79	6.22	7.4	8.04	8.04 ††
50024	4A1	4.83	8.15	6.2	4.54	5.67	8.14	7.2	4.77	6.27	7.45	8.15	8.19
50025	4A1	4.87	8.13	6.22	4.6	5.9	8.16	7.3	4.9	6.34	7.4	8.1	8.18
50027	4A1	4.87	8.09	6.26	4.64	5.93	8.24	7.31	5.03	6.31	7.38	8.02	8.08 †
50029	4A1	4.83	8.21	6.28	4.57	5.91	8.31	7.24	4.79	6.25	7.47	8.18	8.23
50032	4A1	4.9	8.28	6.28	4.59	5.74	8.3	7.27	4.83				

50033	4A1	4.8		8.2		6.5		4.6		5.8		8.4		7.3		4.8		6.18		7.5		8.19		8.28	
50036	4A1	5		8.2		6.4		4.7		5.8		8.2		7.4		4.8		6.2		7.4		8.1		8.2	
50038	4A1	4.65	††	8.06		6.15		4.33	††	5.6	††	8.02		7.1	††	4.76		6.14		7.34		7.96	†	8	††
50042	4A1	4.1	††	5.51	††	5.66	††	3.58	††	4.74	††	6.34	††	6.24	††	5.01									
52283	4A1	4.81		8.17		5.99	†	4.63		5.77		8.3		7.3		4.85		6.32		7.5		8.21		8.27	
52386	4A1	4.9		8.2		6.3		4.6		5.78		8.23		7.29		4.88		6.38		7.46		8.16		8.24	
52387	4A1	4.81		8.11		6.22		4.5		5.81		8.08		7.25		4.81		6.41		7.44		8.08		8.2	
52491	4A1	4.84		8.3		6.31		4.53		5.84		8.11		7.33		5.02									
52494	4A1	4.64	††	7.79	††	5.93	††	4.32	††	5.91		8.41		7.31		4.78		6.48		7.38		8.11		8.18	
52508	4A1									5.7		7.9	†	7.38		5									
52526	4A1	4.9		8.2		6.5		4.7		5.8		7.9	†	7.2		4.8		6.4		7.6		8.2		8.2	
52527	4A1	4.9		8.2		6.3		4.7		5.76		8.16		7.27		4.99		6.41		7.54		8.2		8.31	†
52565	4A1	5.04		8.32		6.45		4.74		5.88		8.2		7.37		4.94		6.42		7.46		8.16		8.22	
52636	4A1	5		8.31		6.39		4.64		5.93		8.14		7.32		5.02		6.47		7.43		8.12		8.18	
52673	4A1	3.97	††	6.56	††	5.48	††	3.62	††	4.5	††	6.16	††	6.27	††	3.66	††	5.06	††	6.45	††	6.7	††	6.97	††
52676	4A1									5.76		8.33		7.35		4.81									
52692	4A1	5.59	††	7.28	††	6.51		4.72		5.89		8.09		7.21		4.8		6.11		7.55		8.17		8.33	†
52874	4A1	4.9		8.18		6	†	4.6		5.91		8.1		7.4		4.97		6.45		7.54		8.24		8.24	
52880	4A1	4.45	††	7.62	††	5.87	††	4.15	††	5.39	††	7.81	††	6.82	††	4.43	††	5.82	††	6.9	††	7.46	††	7.7	††
52894	4A1																	6.57		7.41		7.7	††	8.01	††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Soil pH, 1:5 0.01M $CaCl_2$ (4B1 + 4B2 + 4B3 +4B4)											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
10166	4B1	4.39	7.44	5.57	3.95	4.81	7.45	6.66	4.09	5.28	6.88	7.24 ††	7.51
10181	4B2	4.43	7.81	5.64	3.99	4.9	7.76	6.8	4.18	5.38	7.03	7.42	7.62
20204	4B2	4.45	7.75	5.73	4.03	4.73	7.72	6.76	4.06	5.39	7.02	7.36	7.66
21043	4B1	4.3	7.63	5.55	3.91								
21083	4B3					4.8	7.3 ††	6.6 ††	4.1	4.9 ††	6.5 ††	7 ††	7.3 ††
21088	4B2	4.45	7.74	5.75 †	4.03	4.6	7.7	6.8	4.2	5.72 ††	7.21 †	7.63 ††	7.82
21100	4B4	4.46	7.42	5.59	4.15	4.95 †	7.57	6.84	4.3 ††	6.65 ††	7.23 ††	7.6 ††	7.83
21138	4B3	4.5	7.8	5.7	4	4.9	7.8	6.7	4.1	5.46	7.08	7.44	7.74
21182	4B1									5.5	7.1	7.4	7.8
21193	4B2	4.36	7.65	5.61	3.95	4.71	7.69	6.64	4.06	5.35	7.03	7.37	7.64
21229	4B2	4.46	7.85	5.71	4.02	4.81	7.78	6.75	4.09	5.44	7.07	7.43	7.79
21230	4B2	4.15 ††	6.28 ††	5.62	3.47 ††	4.66	7.5	6.64	4.04	5.46	7.05	7.42	7.73
21232	4B2	4.58	7.67	5.64	4.14	5.35 ††	7.82	6.7	4.24	5.32	7	7.37	7.67
50005	4B1	4.42	7.68	5.69	4.05	4.77	7.75	6.78	4.09	5.36	7.02	7.36	7.67
50005	4B2	4.41	7.65	5.64	4.04	4.77	7.72	6.63	4.08	5.42	7.14	7.41	7.6
50011	4B2	4.41	7.71	5.68	3.96	4.9	7.76	6.81	4.14	5.47	7.13	7.52 †	7.85
50012	4B4	4.53	7.46	5.8 ††	4.05	4.72	7.66	6.74	4.09	5.32	6.97	7.35	7.71
50013	4B2	4.37	7.75	5.58	3.96	4.8	7.7	6.7	4	5.3	7	7.4	7.8
50014	4B1	4.18 ††	7.49	5.41 ††	3.73 ††	4.71	7.57	6.78	4.01	5.33	6.88	7.26 †	7.64
50017	4B2	3.92 ††	7.72	5.62	4.38 ††					5.39	7.06	7.48	7.77
50018	4B2	4.46	7.76	5.64	4	4.77	7.72	6.76	4.08	5.39	7.14	7.51 †	7.68
50020	4B4					4.76	7.4 ††	6.74	4.07				
50023	4B2	4.4	7.66	5.55	4.01	4.7	7.57	6.77	4.12	5.17	7.09	7.33	7.53
50024	4B1	4.33	7.66	5.57	3.9	4.65	7.64	6.65	4.02	5.27	7.04	7.39	7.7
50027	4B1	4.47	7.43	5.64	4.01	4.76	7.64	6.7	4.08	5.39	6.96	7.35	7.62
50027	4B2	4.41	7.68	5.64	4.07	4.79	7.73	6.77	4.18	5.41	7.07	7.43	7.71
50029	4B3	4.35	7.62	5.58	3.92	4.7	7.6	6.62	3.99	5.28	6.97	7.39	7.68
50036	4B1	4.3	7.5	5.6	3.8 ††	4.9	7.5	6.7	4.2	5.2	6.8 ††	7.2 ††	7.5
52317	4B3	4.32	7.57	5.61	3.91	4.89	7.75	6.78	4.18	5.54	7.04	7.45	7.71
52386	4B3	4.4	7.7	5.6	4	4.89	7.68	6.72	4.13	5.34	6.96	7.39	7.69
52387	4B1	4.27	7.53	5.6	3.89	4.76	7.59	6.72	4.06	5.33	6.96	7.31	7.5
52491	4B3	4.35	7.77	5.59	3.92	4.73	7.81	6.77	4.09				
52494	4B1	4.3	7.54	5.63	3.96	4.69	7.85	6.71	3.99	5.42	6.96	7.36	7.71
52508	4B1					5.4 ††	8 ††	7.29 ††	4.8 ††				
52526	4B1	4.4	7.7	5.7	4	4.8	7.6	6.6 ††	4	5.4	7	7.3	7.7
52527	4B2	4.47	7.63	5.73	4.06	4.6	7.5	6.6 ††	4	5.2	6.93	7.31	7.61

52565	4B2	4.77	††	7.89		5.95	††	4.06		5.2	††	7.63	6.91	††	4.21		5.48	7.1		7.51	†	7.78
52636	4B1	4.49		7.85		5.8	††	4.1		5.2	††	7.67	6.88	††	4.29	††	5.54	7.02		7.38		7.81
52692	4B1	3.86	††	6.91	††	5.54		3.52	††	4.52	††	7.47	6.55	††	3.9	††	5.27	6.76	††	7.21	††	7.53
52874	4B1	4.36		7.62		5.53		3.89		4.86		7.47	6.7		4.03		5.32	7		7.43		7.71

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Water Ext Cl (5A1 + 5A2 + 5A3) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
20204	5A1	12.5	20.2	9.85	18.8	470	11.7	193	8.5	11.6	653 ††	91.2	14.6
21083	5A3					190 ††	5 †	170	5	9	450 †	70	20
21088	5A2	9.7	19.4	2.5	26.7	490	7.5	195	4.2	7.2	501	96.2	19.4
21100	5A2	7.69	8.97	10.4	6.19	370 †	11.7	148 ††	24.1 ††	17.8 ††		82	26.2
21182	5A1									5 †	529	112 ††	17
21193	5A1					477	17.9 ††	186	17.3	20.2 ††	517	97.8	28.8 ††
21229	5A2	12.8	12.2	4.9	13.9	432	6.9	179	9.2	9.14	531	81.3	14.2
21230	5A1	15.4	13.2	4.27	15.7	641 ††	11.7	340 ††	11.6	6.22	502	69.9	9.42
21232	5A1	20.6	17.4	13.3 †	20.8	428	13.9	174	14.6	16.4 †	465	76.8	17.6
50005	5A1	16.3	17.1	6.52	17.5	465	87.2 ††	224 ††	20.7 †	11.6	494	87.9	13.9
50011	5A1	11.8	10.7	4.79	12.4	436	8.6	172	6.55	7.69	450 †	83.5	12.3
50012	5A2	14	11	3.3	14	449	6.4	181	5.2	6.3	540	87	11
50013	5A1	15.8	18.9		26.5	485	12.7	199	7.83	10.2	566 †	98.1	17.9
50014	5A1	11.6	10.7	4.59	13	517	11.4	184	6.92	9.42	489	85.7	8.24
50018	5A2	16.1	7.52	7.98	12.1	464	10.1	185	9.56	9.7	486	87.6	12.7
50020	5A2					1140 ††	10.5	184	31.5 ††				
50023	5A1	12.3	11.1	4.63	13.4	483	9.36	177	6.68	8.09	498	58.6 ††	10.8
50025	5A1	11	10	6.5	10.5	465	10.8	180	9.5	9	410 ††	85	11
50027	5A1	15	7	5	10	457	9	177	7	8	491	85	8
50029	5A2	31.4 ††	36.4 ††	97.8 ††	37.5 ††	330 ††	20.8 ††	204 †	64.3 ††	25.3 ††	491	110 ††	25.9
50032	5A1	14	31 ††	12	16	435	10.8	330 ††	4				
50036	5A1	20	10		20	450	10	200		10	590 ††	100	20
50042	5A1	259 ††	142 ††	62 ††	49 ††	419	32 ††	137 ††	20 †				
52494	5A1	16.3	17.4	14.8 †	17.7	279 ††	2.8 ††	178	1.6	8.4	493	88	10.4
52508	5A1					12.9 ††	14.8	72 ††	7.8				
52526	5A1	10	20	5.39	20	570 ††	10	180	8.65	10	530	110 ††	20
52527	5A1	26.7 ††	17.6		25.7	486	12.4	188	12.3		554 †	92	17.9
52565	5A2	21.2	12.9	12.1	19.3	502	19.9 ††	153 †	22.3 ††	23 ††	489	75.8	28.2 ††
52692	5A1	45.3 ††	54.9 ††	23.2 ††	94.2 ††	395	86.6 ††	958 ††	86.8 ††	36 ††	3240 ††	380 ††	331 ††
52874	5A3	3.1 ††	2.9	1.23	3.11 ††								

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Organic Carbon — W&B (6A1) %											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
20204	6A1	1.95	1.39	1.4	3.91	0.121	1.14	1.93	0.877	0.49	3.71	1.55	1.39
21100	6A1	2.27	1.33	1.67	4	0.171	0.955	1.57 †	0.73				
21138	6A1	1.95	1.2	1.37	3.76	0.11	0.98	1.84	0.72	0.4	3.35	1.33	1.3
21190	6A1					0.1	1.13	1.79	0.57	0.535	3.37	1.23	1.49
21193	6A1	2.07	1.27	1.29	3.61	0.23 †	1.18	1.8	0.86	0.47	3.25	1.28	1.25
21215	6A1					1.04 ††	1.79 ††	2.79 ††	1.67 ††	0.41	3.7	1 ††	1.4
21229	6A1	2.12	1.24	1.43	3.84	0.144	1.02	2.03	0.784	0.43	3.66	1.29	1.28
21232	6A1	2.17	1.36	1.54	4.64 ††	0.133	0.945	1.83	0.714	0.394	4.24	1.17	1.27
21234	6A1									23.1 ††	3.38	1.53	1.39
50002	6A1	2.14	1.29	1.52	4.06	2.31 ††	1.69 ††	2.2 †	0.34 ††	1.08 ††	5.07 ††	4.26 ††	4.11 ††
50005	6A1	2.14	1.43	1.48	3.85	0.12	0.912	2.17	0.943	0.476	3.51	1.41	1.33
50006	6A1									0.527	3.8	1.3	1.08 ††
50007	6A1	4.49 ††	2.62 ††	2.95 ††	7.73 ††								
50011	6A1	2.29	1.35	1.5	3.74	0.122	1.08	1.81	0.716	0.415	3.08	1.26	1.29
50012	6A1	2.38	1.61	1.78	4.98 ††	0.33 ††	1.27	1.98	1.01 †	0.473	3.48	1.44	1.56
50013	6A1						1.3	2.1	0.8	0.5	3.7	1.6	1.6
50014	6A1	2.25	1.58	1.6	3.94	0.196	1.06	1.85	0.757	0.581 †	3.1	1.45	1.38
50025	6A1	2.16	1.21	1.41	3.94	0.169	1.07	2.04	0.839	0.305 ††	2.91	1.08	0.968 ††
50027	6A1	2.15	1.33	1.52	3.98	0.12	1.13	1.88	0.78	0.45	3.39	1.35	1.35
50029	6A1	2.01	1.16	1.39	3.71	0.19	0.99	1.91	0.75	0.5	2.99	1.44	1.18
50032	6A1	2.3	1.42	1.66	4.57 †	0.14	1.04	1.77	0.74				
50038	6A1	2.28	1.4	1.57	3.64	0.53 ††	1.34	2.19 †	1.4 ††				
52508	6A1					0.21	0.6 ††	0.442 ††	0.31 ††				
52673	6A1	3.53 ††	2.46 ††	2.79 ††	6.24 ††	0.33 ††	1.97 ††	3.12 ††	1.15 ††	1 ††	5.6 ††	2.5 ††	2.5 ††
52692	6A1	2.17	1.43	1.55	2.95 ††	0.24 ††	1.01	1.63	0.78	0.54	2.87	1.25	1.27
52847	6A1									0.738 ††	6.79 ††	2.22 ††	2.11 ††
52880	6A1	2.9 ††	2.21 ††	2.08 ††	5.1 ††	0.16	1.25	1.91	0.91	0.48	3.24	1.42	1.52

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Total Carbon — Dumas (6B2) %											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
22	6B2	2.42	2.35	1.77	4.14	0.183	1.49 ††	1.89	0.939	0.431	4.85 ††	1.23 ††	2.29
8888	6B2	2.42	2.42	1.92	4.31	0.1 ††	1.7	2.06	0.858 †	0.4	4.78 ††	1.46	2.59 ††
10156	6B2					0.15	1.68	2.11	0.9	0.44	3.69	1.59	2.32
10173	6B2	2.48	2.5	1.9	4.21	0.209	1.72	2.14	1.02 †	0.432	3.96	1.54	2.51 ††
10181	6B2	2.42	1.72 ††	1.89	4.07	0.258 ††	1.8	2.2	0.97	0.518	3.72	1.66	2.44 ††
11079	6B2	2.38	2.2	1.66 †	4.9 ††			2.09					
20204	6B2	2.45	2.1	1.88	4.44	0.192	1.56	2.16	0.951	0.5	4.1	1.76 ††	2.2 ††
21043	6B2	2.4	2.17	1.89	4.14								
21083	6B2					0.17	1.5	2	0.88	0.44	3.6	1.5	2.3
21100	6B2	2.66 ††	2.47	2.08 ††	4.27	0.173	1.69	2.06	0.938	0.434	4.09	1.62	2.03 ††
21138	6B2	2.21 ††	2.18	1.6 ††	4.07	0.13	1.6	1.87	0.82 ††	0.44	3.73	1.63	2.34
21178	6B2	2.35	2.09	1.67 †	4.42	0.15	1.51	1.99	0.84 ††	0.431	4.16	1.45	2.28
21229	6B2	2.33	2.22	1.72	3.97	0.175	1.51	2.07	0.965	0.485	4.15	1.35 †	2.23 †
21230	6B2	2.38	2.32	1.86	4.04	0.151	1.69	1.97	0.912	0.438	3.67	1.57	2.32
21232	6B2	2.45	2.33	1.85	4.1	0.199	1.66	2.09	0.974	0.525	4.05	1.5	2.34
50005	6B2	2.36	2.27	1.76	4.49	0.177	1.69	2.4 †	1.13 ††	0.469	3.59	1.57	2.29
50011	6B2	2.37	2.33	1.78	4.14	0.166	1.64	2.24	0.95	0.461	3.76	1.53	2.34
50012	6B2	2.35	2.32	1.85	4.29	0.16	1.66	2.52 ††	0.903	0.48	3.6	1.58	2.37
50014	6B2	2.53	2.52	1.92	4.44	0.163	1.7	2.39	0.929	0.458	3.83	1.58	2.35
50017	6B2	2.29	2.33	1.89	4.24	0.156	1.55	2	0.866 †	0.415	3.85	1.5	2.32
50020	6B2					0.21	1.72	2.22	0.96				
50024	6B2	2.45	2.4	1.83	4.68 ††	0.191	1.7	2.14	0.909	0.434	3.7	1.45	2.21 †
50027	6B2	2.36	2.29	1.85	4.24	0.171	1.76	2.18	0.93	0.52	3.41	1.48	2.26
50029	6B2	2.48	2.38	1.83	4.19	0.199	1.62	2.3	0.965	0.496	3.77	1.55	2.32
50033	6B2	2.45	2.19	1.85	4.09	0.16	1.58	1.93	0.93	0.449	3.45	1.59	2.1 ††
50039	6B2	2.37	2.29	1.91	4.13	0.27 ††	1.75	2.01	0.96	0.5	3.44	1.61	2.32
52283	6B2	2.51	2.42	1.92	4.38	0.172	1.67	1.91	0.882	0.468	4.01	1.61	2.42 †
52386	6B2	2.23 ††	2.18	1.69	3.93	0.15	1.55	1.99	0.92	0.42	3.69	1.41	2.32
52387	6B2	2.38	2.43	1.85	4.67 ††	0.195	1.67	2.11	0.924	0.447	3.69	1.54	2.34
52491	6B2	2.42	2.32	1.84	4.16	0.214	1.59	2.16	0.958	0.479	3.61	1.53	2.33
52508	6B2					0.55 ††	1.5	0.92 ††	0.75 ††				
52565	6B2	2.4	2.31	1.78	4.34	0.18	1.64	2.18	0.95	0.449	3.9	1.52	2.41 †
52636	6B2	2.26	2.14	1.72	3.83	0.159	1.59	2.1	0.99	0.423	3.87	1.47	2.3
52676	6B2									0.505	3.64	1.57	2.38
52880	6B2									0.51	4.5 ††	1.48	2.15 ††
52888	6B2	2.59 ††	2.37	1.86	5 ††	0.222	1.65	2.33	0.947	0.43	4.06	1.51	2.24 †

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Total Organic Carbon (6B1 + 6B3) %											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
20204	6B3	2.43	1.51	1.86	4.39	0.155	1.17	1.75	0.89	0.46	2.94 ††	1.52	1.42
21083	6B3					0.16	1.1	1.7	0.86	0.44	3.5	1.5	1.3
21088	6B1	2.3	1.5	1.6	4.4	0.26 ††	1.3	2.1	0.97	0.47	3.58	1.42	1.38
21100	6B3	2.47	1.49	1.91	4.37	0.166	1.35	2.06	0.938	0.434	3.71	1.61	1.6 †
21138	6B3	2.21	1.27	1.6	4.04	0.13 †	1.17	1.87	0.82	0.44	3.63	1.57	1.4
21178	6B3	1.92 ††	1.32	1.49	4.03	0.12 ††	0.94 ††	1.74	0.74 ††	0.246 ††	2.93 ††	1.11 ††	0.951 ††
21182	6B3									0.49	1.92 ††	1.66	1.67 ††
21229	6B1	2.45	1.46	1.72	4.69	0.154	1.2	2.17	0.876	0.454	3.99 ††	1.44	1.37
21230	6B3	2.37	1.4	1.84	4.04	0.142	1.28	1.95	0.902	0.398	3.59	1.51	1.37
21232	6B3					0.199 †	1.28	1.62 ††	0.974	0.525	4.05 ††	1.61	1.35
50005	6B3	2.35	2.02 ††	1.65	4.46	0.172	1.58 ††	2.37	1.12 ††	0.466	3.5	1.41	2.11 ††
50011	6B3	2.36	1.39	1.76	4.03	0.162	1.26	2.18	0.941	0.461	3.72	1.53	1.51
50012	6B3	2.49	1.41	1.9	4.29	0.16	1.28	2.52 ††	0.903	0.48	3.6	1.58	1.49
50013	6B3	2.18	1.26	1.77	3.93	0.15	1.18	1.69	0.82				
50014	6B3	2.5	1.5	1.87	4.45	0.16	1.28	2.04	0.921	0.442	3.54	1.55	1.51
50018	6B3	2.33	1.55	1.77	4.11	0.161	1.28	2.06	0.868	0.432	4.01 ††	1.49	1.43
50020	6B3					0.26 ††	1.34	2.17	0.91				
50023	6B3	2.45	1.72 †	1.92	4.25	0.16	1.34	2.04	0.88	0.46	3.67	1.64	1.54
50027	6B3	2.06 ††	1.41	1.77	3.95	0.171	1.21	2.18	0.93	0.52	3.4	1.48	1.4
50029	6B3	2.2	1.41	1.65	3.86	0.17	1.17	1.96	0.896	0.449	3.47	1.42	1.38
50036	6B1	2.53	1.4	1.8	4.6		1.5	2.2	0.8	0.5	3.6	1.5	1.5
50039	6B3	2.37	1.48	1.91	4.13	0.27 ††	1.4	2.01	0.96	0.5	3.44	1.61	1.4
52508	6B1					0.24 ††	0.72 ††	0.579 ††	0.43 ††				
52526	6B1	2.2	1.3	1.5	3.7	0.112 ††	1 ††	2.1	0.8	0.45	3.5	1.5	1.4
52527	6B3	2.42	1.52	1.74	3.79	0.205 ††	1.25	1.99	0.854		3.63	1.69	1.51
52565	6B3	2.39	1.35	1.69	4.33	0.19	1.2	2.41	0.93	0.431	3.55	1.45	1.45
52888	6B3					0.195 †	1.44	2.23	0.95	0.44	3.71	1.61	1.6 †
52894	6B3									0.426	3.44	1.46	1.43
52907	6B3	2.41	1.43	1.91	4.11	0.17	1.42	1.98	0.95	0.42	3.56	1.61	1.39

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Total N (7A1 + 7A2 + 7A3) %											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
10181	7A2	0.21	0.14	0.16 †	0.23	0.02	0.098	0.119	0.066	0.041	0.218	0.125	0.145
21083	7A1					0.02	0.64 ††	0.096	0.047	0.052	0.23	0.13	0.15
21088	7A2	0.18	0.11 ††	0.13 ††	0.18	0.025	0.096	0.098	0.068	0.043	0.22	0.12	0.12
21104	7A1					0.026	0.105	0.131	0.065				
21138	7A2	0.204	0.134	0.156 †	0.213	0.018	0.081	0.119	0.062	0.038	0.228	0.114	0.137
21182	7A2									0.05	0.25	0.13	0.15
21190	7A1					0.031	0.063 ††	0.118	0.06	0.0845 ††	0.24	0.164 ††	0.145
21215	7A1					0.033	0.13	0.133	0.077	0.111 ††	0.113 ††	0.115	0.112 ††
21229	7A2	0.209	0.144	0.178	0.205	0.025	0.11	0.146	0.082	0.047	0.24	0.119	0.153
21232	7A1	0.23	0.146	0.179	0.222	0.036	0.105	0.123	0.075	0.06 †	0.26	0.131	0.15
21234	7A1									0.042	0.219	0.119	0.131
50002	7A1	0.09 ††	0.1 ††	0.12 ††	0.09 ††	0.07 †	0.08	0.06 ††	0.08	0.1 ††	0.16 ††	0.13	0.1 ††
50006	7A2									0.024 ††	0.056 ††	0.026 ††	0.027 ††
50007	7A1	0.231	0.152	0.177	0.211	0.026	0.104	0.13	0.074	0.039	0.212	0.119	0.151
50014	7A2	0.245	0.148	0.185	0.247					0.042	0.242	0.122	0.147
50036	7A1	0.22	0.144	0.177	0.219	0.033	0.12	0.149	0.074	0.045	0.227	0.133	0.133
50038	7A1	0.009 ††	0.136	0.172	0.187								
52508	7A1					0.027	0.075	0.143	0.08				
52636	7A1	0.23	0.14	0.18	0.21	0.031	0.107	0.146	0.088	0.04	0.246	0.137	0.206 ††
52692	7A3	0.16	0.12 ††	0.14 ††	0.15 ††	0.06 †	0.16 ††	0.15	0.11 ††	0.07 ††	0.25	0.12	0.16
52847	7A1									0.0543	0.235	0.133	0.149

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Total N – Dumas (7A5) %											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
22	7A5	0.225	0.126	0.163	0.214	0.028	0.09 ††	0.122	0.069	0.039	0.295 ††	0.095 ††	0.125
8888	7A5	0.21	0.137	0.186	0.208	0.039	0.126 ††	0.151	0.093	0.068 ††	0.293 ††	0.137	0.165 ††
10156	7A5					0.04	0.12 ††	0.15	0.09	0.042	0.232	0.13	0.144
10173	7A5	0.275 ††	0.18 ††	0.211 ††	0.268 ††	0.031	0.129 ††	0.171 ††	0.0914	0.045	0.251	0.147 †	0.154
10181	7A5	0.234	0.158	0.192	0.222	0.042	0.116 †	0.149	0.086	0.0575 †	0.244	0.133	0.14
11079	7A5	0.209	0.101 ††	0.114 ††	0.229								
20204	7A5	0.238	0.144	0.176	0.23	0.028	0.109	0.138	0.075	0.047	0.248	0.133	0.15
21043	7A5	0.2	0.119 †	0.158	0.205								
21088	7A5	0.23	0.15	0.18	0.22	0.004 ††	0.078 ††	0.095 ††	0.053	0.04	0.22	0.11 ††	0.12 ††
21100	7A5	0.207	0.116 ††	0.172	0.192 ††	0.040	0.109	0.116	0.0782	0.0756 ††	0.255	0.157 ††	0.164
21229	7A5	0.216	0.135	0.165	0.207	0.032	0.108	0.125	0.0743	0.046	0.25	0.11 ††	0.133
21230	7A5	0.224	0.147	0.182	0.211	0.032	0.113	0.129	0.077	0.0496	0.244	0.135	0.143
50005	7A5	0.206	0.132	0.155	0.222	0.024	0.105	0.133	0.09	0.0447	0.239	0.129	0.143
50011	7A5	0.237	0.165	0.184	0.233	0.027	0.102	0.129	0.068	0.043	0.242	0.123	0.145
50012	7A5	0.224	0.148	0.181	0.225	0.029	0.11	0.159	0.077	0.0447	0.229	0.129	0.146
50013	7A5	0.219	0.145	0.166	0.206	0.026	0.108	0.132	0.069	0.041	0.216	0.123	0.133
50014	7A5	0.23	0.148	0.174	0.225	0.032	0.111	0.147	0.0758	0.0426	0.247	0.132	0.144
50017	7A5	0.228	0.14	0.177	0.258 ††	0.027	0.104	0.132	0.0727	0.026 ††	0.212	0.115	0.142
50018	7A5	0.218	0.138	0.176	0.215	0.029	0.108	0.128	0.077	0.0421	0.225	0.124	0.146
50019	7A5	0.214	0.14	0.171	0.199	0.027	0.105	0.134	0.074	0.044	0.247	0.127	0.148
50020	7A5					0.05 ††	0.12 ††	0.16	0.1				
50023	7A5	0.23	0.16	0.19	0.23	0.03	0.12 ††	0.14	0.07	0.04	0.24	0.13	0.15
50024	7A5	0.235	0.157	0.195	0.243	0.039	0.117 †	0.145	0.079	0.048	0.245	0.131	0.153
50027	7A5	0.232	0.157	0.188	0.222	0.036	0.106	0.123	0.082	0.049	0.281 †	0.126	0.156
50029	7A5	0.242	0.159	0.189	0.227	0.040	0.107	0.139	0.0674	0.0519	0.248	0.14	0.152
50033	7A5	0.227	0.146	0.177	0.209	0.024	0.107	0.124	0.074	0.041	0.219	0.128	0.143
50039	7A5	0.219	0.139	0.168	0.21	0.031	0.106	0.129	0.075	0.04	0.224	0.123	0.138
52283	7A5	0.226	0.149	0.185	0.226	0.035	0.106	0.143	0.086	0.051	0.252	0.138	0.162
52386	7A5	0.19 ††	0.15	0.16	0.23	0.031	0.12 ††	0.135	0.099	0.04	0.22	0.12	0.11 ††
52491	7A5	0.222	0.143	0.175	0.215	0.021	0.0956 ††	0.131	0.0691	0.0374	0.222	0.117	0.136
52526	7A5	0.2	0.122	0.173	0.167 ††	0.022	0.101	0.134	0.071	0.044	0.208	0.134	0.139
52527	7A5	0.239	0.142	0.165	0.261 ††	0.03	0.112	0.125	0.067	0.046	0.207	0.124	0.133
52565	7A5	0.242	0.154	0.193	0.226	0.031	0.107	0.146	0.0875	0.037	0.239	0.119	0.145
52676	7A5									0.046	0.229	0.125	0.139
52880	7A5									0.05	0.29 ††	0.13	0.14
52894	7A5									0.037	0.227	0.13	0.15

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Water Soluble Nitrate N – autocolour (7B1 + 7B2) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
20204	7B1	60.2	15.4	7.26	5.09	1.49	3.07	3.36	8.23	4.63	0.27	45.1	14.1
21083	7B1					0.56 †	2.2 ††	1.7 †	5.9 ††	3.7 ††	0.5	44	12
21232	7B1	59.5	13.5	7.73	5.61	1.61	3.34	4.1 †	8.69	4.53	0.254	46.6	14
50005	7B1	55.9	14.3	7.96	5.66	1.33	2.92	3.77	10.1	5.13 ††	0.547	46.8	13.8
50013	7B1	60.7	13.3	8.3	4.5	1.5	3.1	3	8.5	4.2		46.8	13
50014	7B1	61.1	14.3	8.48	5.89	1.31	2.75	2.96	9.06	4.36	0.146	50.3	14.7
50018	7B1	61.4	13.2	10.5 ††	4.61	1.4	3.02	2.76	10.1	9.23 ††	2.62 ††	56.7 ††	13.7
50020	7B1					20.5 ††	3.1	3	8.35				
50025	7B1	65	16	9	7	2.45 †	3.73	4.6 †	9.5	5 †	0.9	49	15
50029	7B1	57.3	13.5	7.79	5.7	1.17	3.1	3.33	8.91	5.57 ††	1.58 †	45.2	13.9
50032	7B1	29.5 ††	15	5 ††	1.63 ††	1.6	2.9	9.1 ††	7				
50036	7B1	60.9	12.8	8	2.9	1.5	2.9	2.9	8.7	4.5		43.5	11.9
50042	7B1	53 †	37 ††	19 ††	14 ††	36 ††	38 ††	29 ††	16 ††				
52386	7B1	55	13	8.3	4.6	2.45 †	3.5	1.38 ††	9.8	4.5		41	14
52508	7B1					19.1 ††	22 ††	35 ††	23 ††				
52526	7B1	61.9	13.8	8.7	4.4	2	3.3	1.7 †	9.3	4.5		49.3	14.7
52527	7B1	50.1 ††	0.2 ††	4 ††	0.1 ††	1.9	0.5 ††		7.7	4.4	0.2	45.6	13.2
52565	7B1	53.4 †	14.4	7.49	6.14	1.05	3.01	3.29	9.65	2.77 ††	1	40.9	12.1

Lab. Code #	Method Codes	Soil sample identification and values for 2022: KCl Extractable Nitrate N — autocolour (7C2) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
22	7C2	57.4	13.2	7.18	5.06	1.51	2.91	3.25	9.08	4.1	0.001	42.8	12.5 ††
8888	7C2					1.75 †	3.12	3.69	9.52				
10173	7C2	57.5	15.3 †	8.96	4.23	1.36	2.67	3.27	9.32	4.48	0.001	42	13.6
10181	7C2	57.7	12.8	7.3	4.7	1.51	2.86	3.25	8.85	4.4	0.01	44	14
21043	7C2	57	13.2	7.7	5.2								
21088	7C2	64.4 †	14.9	9	6.4	1.2	3.5	3.8	9.1	5.73 ††	1.04	46.8	14.9 ††
21100	7C2	60.1	10.7 ††	5.61 ††	3.59 †	0.689 ††	1.8 ††	1.56 ††	6.56 ††	4.37	1.01	62.6 ††	14.1
21182	7C2									4	0.025	45	14
21193	7C2	60	13.5	7.53	6.31	1.72 †	3.33	3.65	8.94	5.01	0.37	45.8	16 ††
21229	7C2	59.5	16.7 ††	8.71	6.22	2.2 ††	3.52	3.98	9.58	4.58	0.32	43	13.4
21230	7C2	56.9	12.6	10.3 ††	9.87 ††		1.81 ††	2.39 ††	6.94 ††			40	9.53 ††
21232	7C2	57.9	13.5	8.02	5.65	2.62 ††	3.57	4.47 ††	9.66	4.68	0.517	43.1	13.3
50005	7C2	56.1	14.7	8.02	5.73	1.39	2.94	3.78	10.5	5.05	0.532	45.4	13.4
50011	7C2	57.9	13.4	7.57	5.38	1.45	3.11	3.73	9.45	4.49	0.219	43.8	13.5
50012	7C2	60	13	7.3	2.8 ††	1.2	2.7	3	8.7	4.1	0.1	47	14
50014	7C2	59.8	15.8 ††	8.7	6.17	1.41	3.21	3.61	9.82	4.29	0.3	46.3	14.1
50017	7C2	67.2 ††	13.9	8	8.2 ††								
50019	7C2									5.54 †	1.12	49.2 †	14.6
50023	7C2	59.5	14.2	8.14	5.41	1.54	3.11	3.55	9.21	4.18	0.1	43.8	13.7
50024	7C2	59	13.3	7.44	5.46	1.41	2.75	3.42	8.23	4.27	0.01	43.5	12.7
50027	7C2	61	13.5	7.8	5.6	1.3	2.9	3.1	8.5	4.5	0.3	47.4	14
50033	7C2	61.7	14	8.1	5.2	1.5	3.2	3.2	8.8	4.02	0.1	50 ††	13.6
52491	7C2	60.7	13.5	7.54	5.42	1.52	3.2	3.74	9.41	4.06	1	43	13
52494	7C2	58.7	12.9	7.34	4.87	1.59	2.79	3.2	9.51	4.52	0.27	44.4	13.7
52688	7C2	51.1 ††	10.7 ††	6.42 †	4.47	1.43	2.75	3.18	8.57	7.92 ††	1.24 ††	83.1 ††	23.4 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: KCl Extractable Ammonium N – autocolour (7C2) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
22	7C2	18.1	48.7	24.4	30.2	2.95	5.75 ††	26.6	6.75	2.6	70.9	12.5	50.1 †
8888	7C2					3.93	9.29	31	9.45 ††				
10173	7C2	19.9	58	30.9	31.9	3.7	9.84	28.1	7.49	2.16	73.4	19	58.7
10181	7C2	21.8	60.9	30.3	32.8	3.94	11	29	11 ††	3 †	80	18	65 †
20204	7C2	21.7	25.9 ††	24.3	26.4	4.5 †	8.98	16.3 ††	17.7 ††	2.23	60.5 ††	8.17 ††	52.8
21043	7C2	21.6	60.9	30.4	35.6								
21083	7C2					3.1	7.8	26	6.3	3.5 ††	81 †	18	58
21088	7C2	12.4 ††	38.7 ††	19.2 ††	20.1 ††	2.9 †	7.3 †	19 ††	6.6	1.04 ††	38.8 ††	8.86 ††	34.8 ††
21100	7C2	20.4	58.2	27.3	30.9	2.77 ††	10.4	29.9	7.49	2.05	67.1 †	17.3	56.2
21182	7C2									0.3 ††	43.8 ††	1.6 ††	9.6 ††
21193	7C2	19	54.6	27.6	31.6	4.25	9.96	31	7.89	2.38	75	18	61.9
21229	7C2	19.1	51.2	25.8	31.2	3.4	8.52	26.9	7.56	2.04	74.4	13.7	51.9
21230	7C2	19.4	54.5	27.4	28.3	8.72 ††	12.4 ††	26	11.2 ††	0.666 ††	75.1	14.7	58.8
21232	7C2	21.4	73.7 ††	29	31.9	3.56	9.79	27	7.39	2.23	73.2	15.9	60.4
50005	7C2	18.9	57.1	27	29	3.68	7.47	28.3	6.4	1.96	74	14.4	57.4
50011	7C2	19.8	60.4	27.1	32.6	3.53	10.1	31.3	8.44	2.21	75.8	15.7	59.7
50012	7C2	20	57	28	35	3.9	11	29	7.4	1.8	75	17	60
50014	7C2	17.7	58.4	26.9	31	4.07	9.19	29.2	8.58	2.05	72.2	15.3	54.1
50017	7C2	17.4	48.3	25.2	29								
50019	7C2									1.9	78.4	18	57.4
50020	7C2					4.99 ††	11.8 †	34.8	11.7 ††				
50023	7C2	21.4	60	29.3	32.5	3.76	11.2	31.3	8.03	2.15	71.4	16.8	57.9
50024	7C2	20.2	57.1	27.7	31.1	3.67	9.39	28.8	7.55	2.06	76.1	16.7	57.1
50027	7C2	18.7	56.8	27.4	30.5	3.7	9.8	26.7	7.5	1.5	68.5	15.6	56.3
50032	7C2	16.2	47.9	21 ††	26.8	3.88	8.86	31.8	9.44 ††				
50033	7C2	20.3	58.2	28.7	32.4	4.2	11.1	28.2	8.3	2.43	61.4 ††	13.5	47.7 †
52386	7C2						0.81 ††	13.5 ††	0.92 ††	3.1 †	57 ††	17	57
52491	7C2	18.4	51.8	25.2	29.2	3.59	8.71	28.8	7.2	1.53	74.1	14.7	56.9
52494	7C2	18.8	70.6 ††	44.5 ††	36.1	4.05	9.5	33.3	7.25	1.81	63 ††	14.9	55.1
52526	7C2		50	19.5 ††		3.23	8.34	30	7.07	2.88	80	16.6	60
52565	7C2	15.8	50.9	23.5	26.6	3.59	9.57	29.1	7.12	4.7 ††	72.4	17.4	55.6
52688	7C2	18.1	58.1	28.9	32.6	2.72 ††	9.23	25.4	7.05	4.36 ††	149 ††	31.2 ††	111 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Total P – all methods %											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
10156	Not	0.106	0.51 ††	0.159	0.014	0.0111	0.0219 ††	0.0209	0.0451	0.0145	0.0419	0.0187	0.0539
10181	Not	0.106	0.054	0.138	0.015	0.013	0.019	0.021	0.04	0.014	0.04	0.02	0.05
20204	Not	0.089	0.04	0.113	0.013	0.007	0.018	0.022	0.044	0.0139	0.0383	0.0363 ††	0.0481
21083	Not					0.007	0.018	0.021	0.04				
21088	Not	0.45 ††	0.15 ††	0.29 ††	0.18 ††	0.015	0.024 ††	0.024	0.045	0.017 ††	0.046	0.021 †	0.052
21100	Not	0.105	0.056	0.147	0.013	0.0070	0.0169	0.0188	0.0392	0.0146	0.0452	0.0165	0.0582 †
21138	Not	0.1	0.05	0.13	0.015	0.01	0.017	0.022	0.037	0.0135	0.0456	0.0174	0.0495
21182	Not									0.0174 ††	0.048	0.0279 ††	0.0583 †
21229	Not					0.0061	0.017	0.0217	0.0437	0.012	0.0429	0.016	0.0502
21230	Not	0.091	0.042	0.14	0.010 †	0.0103	0.0216 †	0.0195	0.0429	0.0121	0.036	0.0174	0.0488
21232	Not	0.111	0.062	0.159	0.015	0.0066	0.0175	0.0203	0.0444	0.0121	0.0407	0.0163	0.0487
50005	Not	0.104	0.053	0.149	0.013	0.0078	0.0169	0.0193	0.041	0.0137	0.0444	0.0175	0.0505
50006	Not					0.0005 ††	0.0006 ††	0.012 ††	0.003 ††	0.002 ††	0.002 ††	0.014 †	0.004 ††
50011	Not	0.094	0.048	0.117	0.013	0.0086	0.0169	0.0224	0.0388	0.013	0.0427	0.0157	0.052
50012	Not	0.113	0.062	0.162	0.013	0.0068	0.0143	0.0205	0.0432	0.0109 ††	0.0425	0.0124 ††	0.0554
50013	Not	0.094	0.046	0.112	0.013	0.0138	0.0189	0.0248	0.0485	0.0149	0.0428	0.0166	0.0451
50017	Not	0.094	0.042	0.136	0.010 †								
50018	Not	0.105	0.051	0.138	0.012	0.0076	0.0181	0.0217	0.0416	0.0123	0.0432	0.0162	0.0508
50020	Not					0.0078	0.0214 †	0.0195	0.0428				
50024	Not	0.103	0.050	0.142	0.012	0.0068	0.0159	0.0218	0.04	0.014	0.0581 ††	0.0172	0.057 †
50027	Not	0.107	0.056	0.168	0.013	0.0098	0.0211 †	0.0171 ††	0.0396	0.0139	0.0427	0.0211 †	0.058 †
50036	Not	0.090	0.043	0.116	0.013	0.0135	0.017	0.0239	0.0382	0.0143	0.0372	0.0171	0.0441 †
52508	Not					0.0018	0.0021 ††	0.0095 ††	0.006 ††				
52526	Not	0.084	0.045	0.108	0.012	0.0123	0.0223 ††	0.0254 †	0.0398	0.0167 ††	0.0425	0.0166	0.0485
52527	Not	0.098	0.045	0.111	0.016 †	0.011	0.016	0.021	0.034	0.014	0.0371	0.0181	0.0491
52565	Not									0.0146	0.0522 ††	0.0213 †	0.0647 ††
52636	Not	0.115	0.064	0.098	0.012	0.0112	0.0261 ††	0.0222	0.0495	0.0167 ††	0.054 ††	0.0227 ††	0.0683 ††
52692	Not	0.08	0.05	0.1	0.05 ††	0.01	0.02	0.02	0.04	0.015	0.023 ††	0.016	0.033 ††
52894	Not									0.016	0.046	0.021 †	0.058 †

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Colwell Extractable P (9B1 + 9B2) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
20204	9B1	44.9	33.3 ††	39 †	30.2	5.5	5	57 ††	65.5 ††	10	137	11	48.5
21043	9B2	71.1	64	68.3 †	39.9								
21088	9B1	91 ††	93 ††	88 ††	48 ††	4.9	4.7	52 †	60	7.6	139	8.9	47.9
21100	9B1	42.9	31.9 ††	41.1 †	19.7 ††	5.74	4.81	47.2	53	14.2 †	118 †	14.7	47
21138	9B1	56	51	56	31								
21178	9B1	51	48	51	28	5.3	4.6	49	55	7.23	132	8.66	72.9 ††
21182	9B1									8	96 ††	8	31 ††
21193	9B1	66.8	53.7	65.1	34	0.56 ††	0.21 ††	53.9 †	60.1	6.31	133	5.68	44.2
21229	9B2	58.1	54.9	55.6	26.6	4.81	2.34 ††	32.7 ††	41.2 †	9.48	137	8.95	45.3
21230	9B1	65.8	63.3	53.7	33.3	8.44 ††	0.8 ††	45.9	64 †	22.9 ††	169 ††	46.6 ††	80.6 ††
21232	9B1	52.6	46	52.3	33.4	9.77 ††	7.61 ††	46.6	54.3	12.7	140	13.8	52
50005	9B1	49.3	54.5	50.5	26.1	6.35	4.75	34.7 ††	41.1 †	10.6	171 ††	23.5 ††	51
50011	9B1	55.6	49.6	55	29.5	5.7	4.47	45.5	55.9	10.3	126	11.3	48.5
50012	9B2	57	52	57	25	5.8	6	47	52	7.7	131	12	47
50013	9B1	62	51	63	26	5.91	4.67	45.4	52.5	9	135	10	55
50014	9B2	54.7	48.9	54.8	32.8	5.3	4.4	42.8	48.1	9.7	139	12.1	54.5
50017	9B1	44.7	42.7	47.5	24.2								
50018	9B2	50.3	48.1	49.5	31.4	6.25	5.16	44.8	49.4	7.8	142	12	51.3
50019	9B1	59	54.5	60	33	7	5.6	46.3	47.7	7	128	9	44
50020	9B1					4.53	5.52	47.5	54				
50023	9B1	56.6	57.7	58.6	33.8	9.05 ††	7.04 ††	45.9	51.2	11	141	16.8 †	58.5
50025	9B1	32 ††	44	35.6 ††	21	7	5	35.5 ††	36.3 ††	9.5	99 ††	11	40.5
50027	9B2	52.1	48	52.1	28.8	6	3.6	42.5	49	9.3	140	9	48.3
50029	9B1	48	38.5	43.9	30.4	8.81 ††	7.6 ††	46	49.8	9.18	133	10.5	43.3
50032	9B1	56.5	46.5	55.6	32.7	6.3	5.55	40.1 †	50.8				
52283	9B1	47.8	31.4 ††	40.6 †	28.9	5.87	4.82	43.9	30.9 ††	9.9	134	10.1	48.6
52387	9B1	74 †	62	73 ††	37	12 ††	12 ††	52 †	58	17 ††	136	20 ††	55
52494	9B2	40.4	50.2	51	28.2	5.5	5.2	33.8 ††	40.3 †	8.8	113 ††	9.9	41.2
52508	9B2					12.1 ††	21.5 ††	75.6 ††	37.2 ††				

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Olsen Extractable P (9C1 + 9C2) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
8888	9C2	11.3	11.4 ††	13.3	15.8	1.55	1.03	16.5	19.2	4.76	53.7	5.67	17.5
10173	9C2	13.6	15.1	14.7	19.8	1.16	1.45	17.4	17.8	4.17	49.7	5.19	15 †
10181	9C2	17 ††	21.2	17.3	22.3	1.39	1.5	22	21	3.5	66 ††	4.6	20 †
20204	9C1	14.4	13.8	14.1	19.6	1.66	1.97	21.8	23.5 ††	3.69	58.8	4.76	18
21043	9C2	16.8 ††	18.9	18	23.2								
21100	9C1	13	17.7	13.5	15.7	1.28	2.39	19.9	21.2	6.17 ††	58	7.18	21.6 ††
21178	9C1					1.1	1.4	16	16	2.34	40.3 ††	3.68	13.1 ††
21190	9C1					0.8	0.8	27.8 ††	21.3	5.87 ††	92.3 ††	10.2 ††	35.6 ††
21215	9C1					17.4 ††	18 ††	18.5	0.553 ††	1.34 ††	1.22 ††	16.3 ††	17.2
21229	9C2	14.5	19.3	15.1	22.3	0.55 ††	0.31 ††	14.7	13.5	3.06	56.1	3.75	15.5 †
21232	9C1	13.4	16.8	13.6	20.6	2.04	2.3	18.9	18	3.81	55.7	4.81	17.5
21234	9C1									3.15	50.1	3.84	14.1 †
50002	9C1	27 ††	30 ††	27 ††	31 ††	33 ††	29 ††	24 ††	30 ††	3	15 ††	7	35 ††
50005	9C1	13.7	21.4	15.9	19.1	1.85	1.68	15.5	15	3.52	51.2	7.74	17.1
50007	9C1	14.4	20.2	16.2	21.7	1.43	1.34	24.5 ††	20.4	4.09	69.4 ††	4.64	22 ††
50011	9C1	11.2	16.3	13.2	20.4	1.59	2.01	18.1	17.4	3.07	52.9	3.78	17.9
50012	9C2	15	18	15	23	1.5	1.9	16	15	3.4	51	5.2	18
50013	9C1	13.2	15.9	14.3	18.7	1.3	1.6	18.4	17.2	2.8	49	3.6	15 †
50014	9C2	26.2 ††	33.4 ††	27.6 ††	38.6 ††	1.12	1.32	17	16	3.42	49.2	4.54	17.3
50017	9C2	10.8	18.7	12.9	16.9								
50018	9C2	13.4	17.6	14.8	20.4	1.82	2.01	18.2	16.6	3.1	50.8	3.84	17.6
50020	9C1					1.41	1.8	17	14				
50023	9C1	14.9	19.5	15.3	20.7	2.26	2.41	19	17.9	4.3	56.6	6.51	19.5 †
50027	9C2	14.8	16.5	15.1	20.5	1.7	1.7	18.3	17.7	3.6	58.9	5	16
50029	9C1	13.3	16.2	13.3	20.3	2.07	2.23	20.8	17.5	2.89	51.6	4.02	16.8
50033	9C2	13.3	17.8	14.4	20.1	1.6	1.5	19.1	17.9				
50038	9C1	6.93 ††	15.5	9.8 ††	15.5	3.09 ††	4.02 ††	20.7	20.5				
52508	9C2					11.6 ††	20.7 ††	58 ††	35 ††				
52565	9C2	12.1	13	11.1	18.7	1.34	1.55	16.2	15.8	4.22	50.2	5.59	17.8
52673	9C2	4.33 ††	6.77 ††	5.38 ††	6.52 ††	1.82	1.36	7.64 ††	7.83 ††	3.98	22.3 ††	3.75	7.42 ††
52676	9C2									5	75 ††	7	23 ††
52692	9C1	17.9 ††	20.8	18.8 †	27.5 ††	3.5 ††	2.9 ††	29.3 ††	30.5 ††	6.94 ††	47.7	10.9 ††	21.7 ††
52880	9C1	14	22	17	22	1.79	1.6	23.4 †	21.7	3.92	71.4 ††	4.71	20.9 †

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Bray-1 Extractable P (9E1 + 9E2) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10156	9.00E+01	14.1 ††	21.5	12.1 ††	27.1	3.9	3.64 ††	47.1	28.7 ††				
10166	9.00E+01	4.33	18.5	5.04	15.9	3.54	1.38	31.2	19.9	2.6	66.9	4.1	17.9
20204	9.00E+01	7.18	12.9	6.75	20.6	3.58	0.81	39.4	24.9	4.52	103	3.66	16
21100	9.00E+01	5.99	18.4	5.41	9.7	3.88	0.798	37.2	22.3	3.53	59.7	4.54	18.4
21178	9.00E+01					2.9	0.2	34	19	3.96	76.2	4.04	2.62
21229	9.00E+02	8.1	10.5	6.65	21.7	1.52 †	0.34	40.2	20.2	4.32	117	4.45	20.9
50005	9.00E+01	4.12	39.3	5.71	18.1	3.99	2.7 ††	33.6	13.2 ††	4.35	113	5.28	15.5
50007	9.00E+01	3.09	20.4	3.53 ††	19.2	3.5	0.22	39.8	20.4	3.01	97.4	3.4	22.3
50012	9.00E+02	5.8	32	5.6	18	2.5	0.537	29	19	3.1	75	3.7	20
50013	9.00E+01	8.4	10.2	6.6	16.2	2.5	0.91	34.8	22.5		93.8	3.2	10.7
50020	9.00E+01					7 ††	5.35 ††	35.5	19.6				
52526	9.00E+01	5.9	8.6	6.8	21.6	2	0.52	45.3	23.6	4.3	101	3.6	9.7
52692	9.00E+01	3.62	20.4	4.18	13.4	4.66	1.24	33	20.6	4.07	61.5	1.7 ††	8.4
52880	9.00E+02	3.5	6.3	4.2	27	3.9	0.48	44.9	20.4	2.94	122	2.39	6.58

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Acid Extractable P (9G1 + 9G2) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
20204	9G1	20.1	272	43.5	32.2	9.3	4.99	82.6	49.6	12.5	301	17	370
21088	9G2	5 †	1400 ††	17 ††	60 †	5.5	1	90	29	6.8	300	10	120 ††
21100	9G2	32.6 †	464	88.2 ††	48.2 †	36.5 ††	144 ††	144 ††	76.5 ††	11	359	10.3	446
21229	9G2	10.2	385	44.2	28.5	6.4	0.6	88.5	37.1	9.4	273	10.7	301
21232	9G2	18.8	384	34.2 †	29.4	10.7	6.51	101 †	42.3	15.1	322	15.2	379
50005	9G2	15.4	202 ††	52.6 †	30.4	8.5	8.94	87.8	38.9	12.4	303	19.4	370
50012	9G2	19	370	44	34	6.2	3.5	95	45	10	280	13	370
50013	9G2	5 †	127 ††	26 †	28	6.44	1.94	91.4	31.6	7	262	12	129 ††
50014	9G2	21.9	357	45.7	37.5	9.78	5.55	92.6	47	10.9	271	11.2	361
50020	9G1					6.25	1.93	87.2	36				
50025	9G1	22	361	45	35	10	6	90.5	48	12.5	318	14.8	400
50027	9G2	15.8	338	42.6	26	8.1	4.5	88.4	42.4	10.8	274	11.6	338
50029	9G1	18.6	324	37.1	27.6	11.5	7.89	91.8	37.9	12.7	351	15.9	330
50032	9G1	33.7 †	394	61.7 †	36.7	8.1	4.58	101 †	59.2				
52508	9G2					14	25 ††	62 ††	40				

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Phosphorus buffer index – Colwell (9I2a + 9I2b + 9I2c) L/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
20204	9I2a	350	75.9	217	53.1	47.9	218	65.6	90.5	40.3	81.5	103	97
21088	9I2a	420 ††	93.5	230	55.6	42	210	62	99	44.9	86.1	114	93
21100	9I2a	358	122	237	57.9	32.2 ††	241	58.7	92.2	25.9	54.5	102	93.5
21138	9I2a					40.1	207	56.9	94	35.2	68.2	98	83.1
21178	9I2a									44.6	81.8	108	93.4
21193	9I2a	411 ††	103	261	57	47	246 †	74 ††	114 †	43	85	120	102
21229	9I2a	359	94.2	239	48.1	43.7	240	61.5	103	38.8	74.7	112	98.6
50005	9I2a	356	103	238	47.6	46.1	191 †	57.9	99.3	47	80.5	111	90
50011	9I2a	306	88.4	215	44.2	45.2	211	63.7	90	44.5	69.6	114	92.7
50012	9I2a	350	98.6	242	51.9	37.8	193	51.8	89.6	32.7	63.6	96.4	78.6 ††
50014	9I2b	314	84	198	50	38	208	53	90	37	78	107	95
50018	9I2a	355	101	234	58.6	46.8	223	63.1	102	41.1	76.5	100	98.1
50019	9I2a	339	90	247	47	72 ††	307 †	81 ††	134 ††	45	84	116	99
50020	9I2a					42	200	55	89.5				
50025	9I2a	324	19.8 ††	210	39.5	41.6	217	60.2	97.2	30.9	55	104	85.5
50027	9I2b	335	106	225	47.8	44.8	215	55.4	99	37.4	71.5	99.8	88.2
50029	9I2b	342	97.8	219	50.2	43.5	224	60.4	99.1	39.2	74.4	107	94
50032	9I2a	314	146 ††	231	56.5	45.6	222	65	101				
52494	9I2a	365	107	262	50.5	42.9	222	60.7	98.2	37.6	66.2	107	96

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Phosphorus buffer index – Unadjusted (9I4a + 9I4b + 9I4c) L/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
21088	9I4b	380	76	210	47.2	41	210	52	87	43.6	60.7	112	83.6
21100	9I4b	352	101	212	52.3	31.4	240 †	50.7	82.3	23.8	36.4	99.2	85.3
21178	9I4c	300	72	187	38	37	210	46 †	89	43.3	58.1	106	79.7
21193	9I4a	387	94	243 ††	52	47	246 †	65 ††	103 ††	42	61	119 ††	93 ††
21232	9I4a	296	85.2	203	39.9	39.6	214	45.9 †	88.4	32.2	44.6	102	75.5
50005	9I4a	338	92.5	224	43.3	45	190 †	52	91.6	45.3	51.6	106	80.6
50011	9I4c	288	79	201	39.3	44.2	210	55.7	79.5 ††	42.7	47.9	111	83.4
50014	9I4b	296	75	184	44	37	207	46 †	81 †	35	54	105	84
50025	9I4a	311	71.6	200	38	44.5	215	52	90.2	29	46	102	77.9
50027	9I4b	318	85.8	207	45.1	41.6	216	51	88.4	34.2	49.5	98	82.5
50029	9I4b	325	90.3	207	45	41.8	221	52.2	89.2	37.4	50	104	85.6
50032	9I4a	295	136 ††	217	51.8	45.2	220	59 †	92.7				

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Phosphate Extractable S (10B1 + 10B2 + 10B3) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10173	10B3	45.8	27.5	21.1 ††	19.2 ††	3.19	17.6 †	57.3	22.9	7.49 ††	260	48.4	27.5
21088	10B3	52.5	28.2	37.1	36.9 ††								
21229	10B1	50.3	25	33.6	23.4	3.4	20.3	57.5	28.9	8.26	207	47.4	25.7
21232	10B3	52.4	29.1	39.2	26.3	4.61	19.3 †	54	26.6	8.78	220	46.9	25.5
50011	10B3	54.3	28.1	37.4	25	3.96	20.6	56.2	29.2	8.18	177	48.8	28
50014	10B3	54.3	27.5	36	23.5	3.33	20.4	57	27.9	8.21	207	50.1	27.1
50020	10B3					3.08	16.5 †	55	20				
50025	10B3	57	29.7	40.6	27.4	4.5	24.1 †	63.8 ††	30.2	8.6	212	50	27
50027	10B3	51	25.4	34.1	23.3	3.9	20.2	51.7 †	27.4	8.3	181	48.5	28.1
50029	10B3	49.3	25.3	33.2	23.1	4.77	19.4 †	56.6	23.6	8.65	243	49.9	25.5
52283	10B3	56.6	29.9	39.8	24.6	4.12	20.3	48.4 ††	22	8.39	175	46.8	34.3 ††
52508	10B1					15 ††	25 †	55.2	32.8				

Lab. Code #	Method Codes	Soil sample identification and values for 2022: KCl_{40} Extractable S (10D1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
20204	10D1	19.6	15.1 ††	21.3	20.2	4.09	15	54	13.9	6.89	218	41.1	21.9
21083	10D1									4 ††	210	48	16 ††
21088	10D1	17.1	22.3	18.5	20.2	2.6	14	52	12	6.8	290	44	22
21100	10D1	20	24.4	13.2 ††	27.8 ††	2.7	13.3	44.6 ††	30.8 ††	6.59	258	41.5	26.2 ††
21178	10D1					3	16 ††	59 ††	14	8 ††	280	48	26 ††
21229	10D1	17.9	19.9	18.8	19.4	2.4	13.5	54.4	12.4	7.11	324	41	22.4
21232	10D1	18.4	23.1	20.8	19.9	3.28	14.5	53.6	13.2	7.16	257	45.7	24.6 †
50005	10D1	16.1	20.7	16.5	22.6	3.5	13.4	53.7	14	6.84	224	40.2	21.9
50011	10D1	18.7	22.1	20.6	21	2.75	12.9	52.6	12.8	6.92	260	44.9	22.7
50012	10D1	20	27 ††	22	29 ††								
50013	10D1	20	23	22	26	2	13	54	11	4 ††	277	44	21
50018	10D1	19.1	21.9	20.9	22.7	3.42	13.5	44.2 ††	11.9	7.04	336	39.4	22.2
50024	10D1	17.3	20.7	18.1	19.6								
50027	10D1	16.8	21.5	18.6	20.9	3.9	14.6	49.7 †	11.7	7.1	269	44.7	22.6
50038	10D1					9.13 ††	1.35 ††	27 ††	9.94	1.1 ††	33.2 ††	7.57 ††	4.01 ††
52494	10D1	19.2	23.1	21.3	23.3	2.8	13.7	50.1	11.7	7.67 ††	291	49.9	25.1 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: DTPA Extractable Fe (12A1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
10166	12A1	239	6.7	31.8	423	45.1	9.81 ††	117	67.2	47.5	146	21.4	6.04
20204	12A1	235	3.89	26.5	384	47.6	7.67	147	120 †	57.3	145	16	5.38
21088	12A1	190	5.6	24	340	38 ††	7.4	120	101	45.2	144	17	4.54
21100	12A1	185	4.67	24.3	383	43.2	7.01	149	118 †	72.7 ††	230 ††	20.5	6.39
21178	12A1					50	8	125	73	36 ††	110 ††	11	2.7 ††
21190	12A1					167 ††	129 ††	253 ††	130 ††	55.1	170	13.6	4.15
21193	12A1	179	4.71	25	375	56.6	7.38	134	79.6	56.2	151	14.5	4.43
21229	12A1	216	7.16 †	27.5	363	48.3	8.2	149	87	54.6	155	17.2	5
21232	12A1	157	4.41	18.4	333	45.7	7.08	150	78.3	49.6	153	15.9	4.76
50002	12A1	20.8 ††	0.42 ††	0.36 ††	1.11 ††	61.7 ††	2.13 ††	70.4 ††	35.7 ††	14.5 ††	18.4 ††	7.84 ††	1.24 ††
50005	12A1	226	5.45	39.3 ††	371	51.1	8.26	224 ††	255 ††	54.6	136	13.3	4.99
50006	12A1									62.7	287 ††	17.7	3.96
50007	12A1	191	4.37	21.7	352	48.4	6.49	124	71.7	1.05 ††	33 ††	34.7 ††	16.9 ††
50011	12A1	167	5.28	20.6	319	47.5	7.56	131	78.2	42.4 †	132	15.4	4.71
50012	12A1	146	4.8	20	271	35 ††	5.2 ††	94 †	62	48	150	19	5.2
50013	12A1	227	5.29	31.2	418	53.6	8.08	150	90	70 †	174 †	23	6
50014	12A1	199	4.97	21.8	347	46.9	7.35	134	80.8	56.1	150	12.1	4.32
50018	12A1	182	4.21	22	348	51.3	8.01	133	93.7	59.4	137	13.8	5.06
50020	12A1					51	9.4 ††	124	75				
50024	12A1	212	5.66	30.5	430	48.5	7.64	134	81.1	56.3	152	19.3	5.29
50025	12A1	227	5.79	25.9	444	51.9	7.83	203 ††	119 †	51.4	158	19	5.14
50027	12A1	177	5.2	23.2	357	49.7	7.7	123	75.2	53.1	136	17.8	4.6
50029	12A1	185	5.33	24.9	351	44.8	7.27	120	71.2	48.6	124	16.5	4.54
50032	12A1	192	4.5	28.1	392	46	8.45	135	91				
50038	12A1					47	7.01	133	117 †	61.9	49.8 ††	17.6	69.1 ††
52283	12A1	299 ††	8.52 ††	38.9 ††	395	50.5	8.02	139	118 †	418 ††	183 ††	17.2	5.69
52387	12A1	157	4.4	22	288	41	7	141	63	57	145	14	3.6
52494	12A1	187	5.82	27	416	31.6 ††	6.44	92.3 †	47.7	51.5	119	17.1	5.32
52565	12A1									61	136	19.6	7.14 ††
52636	12A1	405 ††	9.95 ††	58.1 ††	508 ††	48.5	10.1 ††	152	123 ††	60.4	141	20.7	6.47
52692	12A1	50.3 ††	5.5	1.6 ††	149 ††	13 ††	4.9 ††	69.8 ††	1.5 ††	47.2	97.1 ††	11.7	2.48 ††
52880	12A1	153	3.6	18	310	54.9	7.49	136	84.8	4.48 ††	14.3 ††	10.7	3.73

Lab. Code #	Method Codes	Soil sample identification and values for 2022: DTPA Extractable Cu (12A1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
10166	12A1	1.29	1.17	6.86 †	0.423	4.09 ††	1.18	1.62	1.99	0.317 ††	2.19	1.57	1.28
20204	12A1	1.38	0.86 ††	5.94	0.4	4.7	0.987	1.56	1.99	0.21	2.08	1.49	1.23
21088	12A1	1.3	1.3	4.9	0.37	4.9	1.1	1.6	2	0.165	2.18	1.53	1.33
21100	12A1	1.22	1.34	5.24	0.404	4.76	1.05	1.62	1.99	0.259 †	2.42 ††	1.71	1.48 ††
21178	12A1					5.1 †	1.1	1.7	1.9	0.2	2	1.4	1.1 ††
21190	12A1					5.32 ††	1.34 ††	2.16 ††	2.49 ††	0.115 ††	2.36 ††	1.55	1.31
21193	12A1	1.36	1.38	6.37	0.42	7.34 ††	1.16	1.8	2.35 ††	0.23	2.03	1.54	1.27
21229	12A1	1.33	1.27	5.49	0.399	4.65	0.975	1.59	2.08	0.207	2.26	1.53	1.29
21232	12A1	1.2	1.17	4.61	0.387	4.74	0.997	1.57	1.92	0.203	2.04	1.48	1.23
50002	12A1	1.75 ††	1.59	4.67	0.82 ††	1.85 ††	1.12	9.13 ††	0.325 ††	0.41 ††	3 ††	1.92 ††	1.34
50005	12A1	1.84 ††	1.38	7.53 ††	0.427	4.76	0.903	0.934 ††	2.38 ††	0.206	2.09	1.67	1.25
50006	12A1									0.299 ††	2.3 †	1.69	1.8 ††
50007	12A1	1.36	1.26	6.01	0.33 ††	5.11 †	0.97	1.59	2.05	0.64 ††	0.57 ††	0.61 ††	0.73 ††
50011	12A1	1.23	1.13	5.02	0.366	4.74	0.968	1.62	1.94	0.181	2.06	1.43	1.14 ††
50012	12A1	1.2	1.1	4.4	0.321 ††	4.8	0.971	1.4	2	0.209	2.3 †	1.6	1.3
50013	12A1	1.54	1.61 ††	5.6		5.14 †	1.2	1.84	2.1		2	2 ††	2 ††
50014	12A1	1.41	1.29	5.36	0.408	4.81	1.04	1.68	2.06	0.207	2.11	1.57	1.28
50018	12A1	1.29	1.27	5.23	0.374	4.74	1.02	1.55	2.03	0.23	2.14	1.6	1.27
50020	12A1					5.1 †	1.2	1.6	2.3 †				
50024	12A1	1.44	1.4	6.37	0.436	4.59	1.08	1.69	2.08	0.233	2.39 ††	1.67	1.41 †
50025	12A1	1.38	1.34	5.81	0.417	4.64	1.05	1.59	2.18	0.223	12.7 ††	1.48	1.29
50027	12A1	1.32	1.25	5.36	0.46	4.82	1.09	1.67	2.12	0.27 †	2.11	1.53	1.25
50029	12A1	1.42	1.4	5.57	0.514 ††	4.76	1.09	1.66	2.14	0.289 ††	2.08	1.59	1.32
50032	12A1	1.31	1.29	5.5	0.39	4.7	1.09	1.77	2.16				
50038	12A1					5.78 ††	1.19	1.95 ††	2.45 ††	0.28 ††	2.55 ††	1.89 ††	1.46 ††
52283	12A1	1.56 †	1.37	7.55 ††	0.421	4.96	1.09	1.49	2.17	0.208	2.08	1.51	1.25
52387	12A1	1.3	1.2	5	0.421	4.8	0.995	1.5	2	0.206	2.3 †	1.5	1.3
52494	12A1	1.26	1.38	6.04	0.42	4.02 ††	0.94	1.38	1.62 ††	0.22	1.98	1.5	1.22
52565	12A1									0.233	2.08	1.62	1.35
52636	12A1	2.12 ††	1.7 ††	9.22 ††	0.51 ††	4.51 †	1.18	1.48	2.09	0.23	2.11	1.73 †	1.41 †
52692	12A1	0.19 ††	0.15 ††	0.34 ††	0.03 ††	0.29 ††	0.33 ††	0.57 ††	0.61 ††	0.1 ††	0.55 ††	0.09 ††	0.23 ††
52880	12A1	0.83 ††	0.98	5.2	0.46	1.99 ††	0.71 ††	1.01 ††	2.02	0.19	2.14	1.36	1.22

Lab. Code #	Method Codes	Soil sample identification and values for 2022: DTPA Extractable Mn (12A1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
10166	12A1	66.2	89.3	324 †	48.5	5.04	51.7	8.93	203	24.1	24.2	75.9	82.1
20204	12A1	61.6	57.6 ††	179	55	5.27	44	9.15	166	23.9	20	73.2	81.8
21088	12A1	55.7	72.8	198	46.3	5.1	46	9.5	180	24.8	24.8	67.3	79
21100	12A1	67.4	82.4	229	45.5	4.61 ††	40.8	8.04 †	154	27.8	26.9	77.6	83.3
21178	12A1					5.3	49	9.6	180	25	25	63	75
21190	12A1					6.14 ††	50.4	10.5	200	38 ††	34.5 ††	85.1	85.5
21193	12A1	50 ††	68 †	209	38 ††	5.43	50.9	9.39	201	21.3 †	18.8 †	3.32 ††	3.58 ††
21229	12A1	65.7	83.1	227	52.8	5.28	47.8	9.96	198	25.6	26.6	71.9	80.9
21232	12A1	59.4	80.8	197	48.5	5.61	47.6	9.71	198	27.5	26.3	73.2	84.3
50002	12A1	20.6 ††	19.3 ††	19.4 ††	18.9 ††	57.4 ††	21.1 ††	33.1 ††	24.6 ††	8.39 ††	6.69 ††	26.1 ††	24.6 ††
50005	12A1	64.1	73.6	197	50.9	5.3	54	9.39	156	25	22.2	69.5	81.1
50006	12A1									43.4 ††	33.2 ††	53.7 ††	59.1 ††
50007	12A1	72.1	84.9	248	46.8	5.38	49.2	9.4	199	6.56 ††	16 ††	14.8 ††	40.9 ††
50011	12A1	62.8	79.7	224	46.3	5.44	47	9.7	180	25.2	24.8	70.1	78.2
50012	12A1	60	69 †	165 †	39 ††	4.4 ††	36 ††	7.2 ††	139 ††	25	23	72	75
50013	12A1	71.7	77.8	377 ††	38.3 ††	4.36 ††	45.5	9.13	171	27	25	82	83
50014	12A1	63.7	82.3	211	50.3	5.58	48.6	10.1	200	26.5	24.3	69.9	79.3
50018	12A1	65.2	86.4	232	49.8	5.23	55.2	9.45	194	27.7	24.9	69.5	81.2
50020	12A1					5.65	55	9.05	189				
50024	12A1	74.5	90.1	268	53.7	6.01 ††	55.6	11.4 ††	231	29.2 †	27.6	83.1	87.2
50025	12A1	54	77.4	208	46	5.27	47.5	9.45	189	23.2	21.7	65	73
50027	12A1	59.6	79.3	209	49.6	5.75	49.3	9.95	204	31 ††	25.1	72.9	79
50029	12A1	61.7	80.1	236	48.5	5.12	45.8	9.2	181	25.4	22.6	65.2	74.9
50032	12A1	66.3	82.3	258	49.5	5.35	55	10.5	225				
50038	12A1					5.95 ††	39.9	10.3	168	21.7	12.8 ††	75.8	69.6 ††
52283	12A1	83 ††	99.6 ††	287 †	50	5.44	55.3	10.5	201	25.5	29.6	80.4	93.6 ††
52387	12A1	69	83	233	46	6 ††	50	10	226	28	26	71	76
52494	12A1	69	91.5 †	272	46.7	4.6 ††	42.1	8.4	160	25.3	24.6	70.3	82.9
52565	12A1									24.2	22.3	79	80.1
52636	12A1	82.5 ††	103 ††	404 ††	51.2	5.23	49.5	8.78	174	24.1	21.6	78.2	78
52692	12A1	47.8 ††	37.1 ††	114 ††	22.5 ††	5	22 ††	5.1 ††	167	22.7	12.5 ††	40.1 ††	31.8 ††
52880	12A1	73	76	223	46	5.2	53.1	9.76	214	24.6	23.2	67.8	76.6

Lab. Code #	Method Codes	Soil sample identification and values for 2022: DTPA Extractable Zn (12A1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
10166	12A1	3.2	1.68	8.75	3.57	2.74 ††	0.24	13.1 ††	3.21 ††	0.517 ††	11.9	1.17	1.31
20204	12A1	3.03	1.92 ††	6.69	3.8	2.26	0.42	7.55 †	2.44	0.727	12.6	1.26	1.44
21088	12A1	3.1	1.5	6.5	3.5	2.2	0.34	7.2 ††	2.4	0.73	13	1.3	1.6
21100	12A1	2.96	1.52	6.63	3.54	2.1	0.266	7.52 ††	2.48	0.729	13.8	1.38	1.5
21178	12A1					2.2	0.4	8.6	2.4	0.7	12	1.2	1.3
21190	12A1					2.85 ††	0.41	9.75 ††	3.14 ††	0.685	13.6	2.04 ††	2.09 ††
21193	12A1	3.6	1.61	0.366 ††	4.12	2.57	0.49	10.7 ††	4.64 ††	0.62	13.3	1.29	1.61
21229	12A1	3.4	1.46	7.29	3.87	2.26	0.398	8.77	2.77	0.738	14.1	1.24	1.45
21232	12A1	2.9	1.4	6.32	3.46	2.23	0.34	8.39	2.43	0.607	12.4	1.18	1.37
50002	12A1	1.15 ††	1 ††	1.9 ††	1.24 ††	1.56 ††	1.36 ††	0.694 ††	0.439 ††	0.93 ††	2.96 ††	1.61 ††	1.77 ††
50005	12A1	3.69 †	1.43	7.88	3.69	2.4	0.526	8.35	2.11 †	0.702	13.4	1.44	1.46
50006	12A1									1.04 ††	7.08 ††	1.59 ††	1.73
50007	12A1	2.99	1.38	7.08	3.5	2.26	0.38	7.89	2.48	0.4 ††	0.98 ††	1.02 †	0.31 ††
50011	12A1	2.93	1.41	6.56	3.25	2.37	0.393	8.76	2.44	0.729	14.5	1.18	1.36
50012	12A1	2.7	1.3	6	3 ††	1.8	0.265	6.3 ††	1.9 ††	0.654	14	1.4	1.4
50013	12A1	3.18	1.47	6.28	3.49	1.97		7.8 †	2.29		12	1 ††	1 ††
50014	12A1	3.17	1.56	6.74	3.55	2.13	0.382	8.55	2.52	0.633	12.2	1.25	1.35
50018	12A1	3.12	1.29	7.42	3.74	2.44	0.362	8.65	2.75	0.651	12.4	1.26	1.51
50020	12A1					3.4 ††	1.4 ††	9.9 ††	3.9 ††				
50024	12A1	3.29	1.52	7.6	3.79	2.14	0.368	8.56	2.5	0.639	13.5	1.33	1.63
50025	12A1	3.32	1.71	7.59	3.8	2.23	0.337	8.67	2.78	0.736	12.7	1.31	1.45
50027	12A1	3.02	1.54	6.8	3.63	2.44	0.37	8.54	2.63	0.73	12.9	1.28	1.39
50029	12A1	3.28	1.46	7.21	3.73	2.23	0.385	8.17	2.45	0.791	12	1.3	1.39
50032	12A1	3.23	1.61	7.4	3.67	2.39	0.43	8.7	2.58				
50038	12A1					2.75 ††	0.41	8.06	2.91 †	0.5 ††	7 ††	1.13	1.06 ††
52283	12A1	4.06 ††	1.72	10.8 ††	3.71	2.52	0.402	8.89	3.31 ††	0.715	11.8	1.24	1.33
52387	12A1	2.9	1.7	7.5	3.3	2.4	0.437	8.3	2.3	0.688	17 ††	1.2	1.6
52494	12A1	3.1	1.62	8.12	3.68	2.18	0.32	7.82 †	2.24	1.22 ††	12.6	1.42	1.54
52565	12A1									0.674	12.7	1.37	1.53
52636	12A1	4.63 ††	2.13 ††	11.1 ††	4.13 ††	2.26	0.47	7.71 †	2.47	0.6	12.2	1.36	1.5
52692	12A1	3.82 ††	2.12 ††	6.24	3.26	3.09 ††	0.5	7.6 †	2.6	0.63	9.31 ††	1.51 †	1.78 ††
52880	12A1	2 ††	1.3	2.6 ††	2.6 ††	1.99	0.27	8.58	2.63	0.49 ††	0.97 ††	0.8 ††	0.95 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: CaCl2 Extractable B (12C1 + 12C2) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10166	12C1	1.32 †	2.17	1.24	2.52 †	0.228	1.07	0.609	0.387	0.196	1.55	1.39	2.01
10173	12C2	0.58	1.95	0.9	0.6	0.34 ††	2.28	0.82	0.74	0.16	1.55	2.06	2.58
20204	12C2	0.62	1.91	0.99	0.55	0.22	1.56	0.91	0.543	0.18	1.28	1.26	1.92
21083	12C2					0.18	4.5 ††	1.1	0.77 †	0.2	2.5 ††	2.5	2.8 ††
21088	12C2	0.804	2.5	1.24	0.78	0.21	1.8	0.86	0.61	0.128	1.54	1.7	2
21100	12C2	0.743	1.43 ††	1.03	0.824	0.511 ††	0.643 †	1.61 ††	0.982 ††	0.221	1.56	1.95	1.72
21229	12C2	0.602	2.08	1.12	0.701	0.2	1.69	0.721	0.523	0.132	1.42	1.64	2.26
21232	12C2	0.667	2.51	1.26	0.675	0.2	2.17	0.85	0.543	0.23	1.71	2.03	2.66 †
50005	12C2	0.673	2.37	1.15	0.714	0.2	1.55	0.777	0.468	0.155	1.42	1.67	2.19
50011	12C2	0.597	2.2	1.03	0.766	0.215	1.89	0.709	0.46	0.141	1.39	1.8	2.26
50012	12C2	0.764	2	1.4	0.678	0.142 ††	1	0.669	0.515	0.187	2	1.6	2.5
50013	12C2	0.4 †	1.3 ††	0.6	0.6		0.49 ††	0.16 ††	0.23 ††		0.4 ††	0.6 ††	0.6 ††
50014	12C2	0.865	2.19	1.58	0.787	0.204	2	1.04	0.686	0.161	1.7	2.24	2.04
50018	12C2	0.561	1.76	0.97	0.607	0.196	1.6	0.782	0.448	0.12	1.52	1.48	2.16
50020	12C2						3.77 ††	1.04					
50025	12C2	1.01 †	2.18	1.25	0.859	0.437 ††	2.25	0.852	0.67	0.235	2.21 ††	2.46	3 ††
50027	12C2	0.47	2.13	0.84	0.49	0.19	1.7	0.93	0.38	0.16	1.58	1.66	1.93
50029	12C2	0.669	2.47	0.775	0.417	0.176	1.91	0.732	0.396	0.157	1.14	1.81	2.11
50032	12C1	0.673	1.99	1.37	1.03 †	0.206	1.62	0.855	0.563				
52494	12C2	0.64	1.8	1.16	0.68	0.14 ††	0.9	0.8	0.56	0.14	1.5	0.98	2.3
52526	12C1	0.7	2.2	1.4	0.6	0.156 †	1.6	0.7	0.5	0.187	1.8	1.7	2.1
52692	12C1	0.74	3.04 ††	1.01	3.92 †	1.02 ††	1.64	2.78 ††	0.65	0.17	5.77 ††	2.32	2.91 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Exchangeable Ca — 1M NH_4Cl extract (15A1) cmol+/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
20204	15A1	4.72	28.7	6.55	3.21	0.51	40.6	7.45	1.84	2.23	11.8	29.2	30.3
21083	15A1					0.39	44	6.9	1.6	2.1	12	32 ††	26 †
21104	15A1					0.381	43.8	7.18	1.75	2.12	10.5	26.8	29.1
21182	15A1									2.1	12.4	29.3	29.9
21193	15A1	4.74	31.7	7.2	3.08	0.45	43.3	7.46	1.83	2.33 ††	12.6	30.8	30.7
21232	15A1	4.52	31.7	6.61	3.05	0.44	41	7.26	1.76	2.14	11.8	29.1	30.1
50002	15A1	0.02 ††	0.18 ††	0.25 ††	0.07 ††	0.36	14.3 ††	0.08 ††	0.32 ††	0.78 ††	1 ††	0.37 ††	3 ††
50005	15A1	4.13	27.9	6.13	2.73	0.452	37.8	7.76	1.92	2.14	11.7	27.2	28.5
50011	15A1	4.02	30.9	6.1	2.66	0.483	44.2	7.39	1.83	2.13	11.5	29.7	35.1 ††
50012	15A1	3.9	28	5.8	2.8	0.42	36 ††	6.6	1.6	2.1	12	28	28
50013	15A1	3.9	29	5.7	2.6	0.4	43.1	7.2	1.8	2 †	10.1	28.2	29.8
50014	15A1	4.26	31.4	6.38	2.7	0.461	42	7.1	1.66	2.13	11.2	30.9	29.8
50017	15A1					0.55	52.1 ††	7.53	1.84				
50019	15A1					0.68 ††	62 ††	11.4 ††	2.7 ††				
50023	15A1	4.6	32.2	6.83	3.3	0.51	48 ††	7.78	1.96	2.37 ††	13.3	34 ††	33.8 †
50036	15A1	4.2	29.5	6.1	2.8	0.4	41.4	6.6	1.7	2.1	11.4	28.6	29.8
50038	15A1					1.68 ††			5.42 ††	3.16 ††	11.4	27.3	28.8
52283	15A1	4.32	22.6 ††	6.3	2.9	0.489	40.4	8.08	2.1	2.18	10.7	28.4	22.8 ††
52386	15A1	1.6 ††	18.8 ††	3.6 ††	0.8 ††	0.48	41.9	7.42	1.83	2.17	11.3	28	28.6
52387	15A1	3.84	27.9	5.68	2.29	0.435	40.3	6.89	1.54	1.82 ††	10.7	27.3	29.3
52494	15A1	4.21	28.7	6.17	2.69	0.414	37.4 †	6.56	1.61	1.98 ††	11.1	28	28.2
52526	15A1	3.6	27.8	5.6	2.6	0.4	41.8	7	1.8	2.1	10.9	26.7	28.2
52527	15A1	4.5	30.3	6.79	3.04	0.423		6.14 †	1.59	2.24	13.3	28.4	34.3 ††
52692	15A1	4.69	30.1	6.45	1.95 ††	0.11 ††	17.6 ††	1.89 ††	0.46 ††	2.64 ††	12.7	36.9 ††	33.4 †

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Exchangeable K — 1M NH_4Cl extract (15A1) cmol+/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
20204	15A1	0.187	1.46 ††	0.364	0.249	0.959	0.551	0.683	0.654	0.145	2.95	1.1 †	1.89
21083	15A1					0.9	0.8 ††	0.44 ††	0.7	0.16	3.1	1.1 †	1.9
21104	15A1					1.36 ††	0.818 ††	1.15 ††	1.12 ††	0.2 ††	0.32 ††	1.13 ††	2.13 ††
21182	15A1									0.14	3.01	1	1.9
21193	15A1	0.069	1.95	0.35	0.16 †	0.91	0.48	0.69	0.69	0.17	2.77	0.98	1.84
21232	15A1	0.15	1.91	0.406	0.253	0.914	0.521	0.75	0.737	0.146	2.79	0.938	1.81
50002	15A1	0.15	0.45 ††	0.11 ††	0.07 †	0.52 ††	4.85 ††	1.52 ††	0.13 ††	0.02 ††	2.66	5.78 ††	0.08 ††
50005	15A1	0.145	1.93	0.413	0.25	0.902	0.57	0.724	0.717	0.14	2.77	1.14 ††	1.9
50011	15A1	0.144	1.93	0.413	0.246	0.988	0.602	0.812	0.823	0.155	2.88	1.02	2.02
50012	15A1	0.12	1.6 ††	0.32 ††	0.21	0.8	0.45	0.65	0.65	0.18 †	2.7	0.96	1.8
50013	15A1	0.1	1.8	0.4	0.2	1	0.6	0.8	0.8	0.1 ††	2.2 ††	0.8 ††	1.6 ††
50014	15A1	0.156	1.98	0.424	0.243	0.981	0.579	0.793	0.802	0.151	2.9	1.05	2.02
50017	15A1					1.32 ††	0.833 ††	0.694	0.822				
50019	15A1					0.6 ††	0.34 ††	0.49 ††	0.46 ††				
50023	15A1	0.14	1.94	0.39	0.25	1.05	0.59	0.75	0.71	0.12	2.69	1.11 †	1.91
50036	15A1	0.2	1.9	0.4	0.2	1	0.6	0.4 ††	0.8	0.2 ††	2.6	1	1.8
52283	15A1	0.126	2	0.371	0.246	1.04	0.538	0.74	0.701	0.142	3.1	1	1.92
52386	15A1	0.2	2.1 †	0.5 ††	0.3	1	0.55	0.83	0.83	0.16	3.01	0.97	1.97
52387	15A1	0.315 ††	4 ††	0.903 ††	0.52 †	0.913	0.56	0.765	0.757	0.149	2.65	0.918	1.57 ††
52494	15A1	0.128	1.86	0.381	0.208	0.86	0.496	0.694	0.692	0.133	2.75	0.976	1.86
52526	15A1	0.1	1.7 †	0.4	0.2	0.9	0.6	0.7	0.7	0.2 ††	2.4	0.9 †	1.7 †
52527	15A1	0.173	1.89	0.462 †	0.264	0.998		0.736	0.782	0.164	2.85	0.978	1.85
52692	15A1	0.14	1.81	0.41	0.18	0.9	0.49	0.73	0.75	0.13	2.72	0.93	1.81

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Exchangeable Mg — 1M NH_4Cl extract (15A1) cmol+/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
20204	15A1	1.61	2.34 ††	2.52	1.26	19.1	9.76	1.83	1.16	1.56	3.22	9.36	2.95
21083	15A1					16 ††	9.2 †	1.4 ††	0.84 ††	1.5	3.3	9.6	2.8
21104	15A1					17.9	9.04 †	1.78	1.08	1.34	2.8 †	7.18 ††	2.55
21182	15A1									1.42	3.17	9.24	2.87
21193	15A1	1.82	2.92	2.59	1.22	21.3	3.96 ††	1.96	1.26	1.62	3.34	9.83	3.18
21232	15A1	1.78	3.07	2.76	1.37 ††	18.9	9.67	1.8	1.11	1.51	3.14	8.92	2.9
50002	15A1	0.15 ††	0.87 ††	0.58 ††	0.17 ††	5.6 ††	7.74 ††	0.57 ††	0.31 ††	9.25 ††	19.8 ††	2.95 ††	1.04 ††
50005	15A1	1.64	2.92	2.63	1.25	18.5	10.8 ††	1.77	1.13	1.52	3.06	8.58	2.84
50011	15A1	1.56	2.82	2.55	1.14	20	10.7 †	1.86	1.18	1.53	3.01	9.44	3.11
50012	15A1	1.5	2.6	2.3	1.2	19	9.7	1.6	1.1	1.6	3.1	9.6	2.8
50013	15A1	1.5	2.6	2.4	1.1	20	10	1.9	1.2	1.3 ††	2.7 ††	8.2	2.9
50014	15A1	1.69	2.97	2.67	1.18	20.1	10.3	1.81	1.14	1.51	3.03	9.69	3.02
50017	15A1					18.4	9.33	1.49	0.981 ††				
50019	15A1					20.2	10.5 †	2.08	1.28				
50023	15A1	1.81	3.07	2.89	1.41 ††	20	11.1 ††	1.91	1.22	1.68	3.39	10.5	3.23
50036	15A1	1.6	2.8	2.5	1.2	19.2	9.8	1.5	1.1	1.4	2.9	8.8	2.7
50038	15A1					0.03 ††			0.017 ††	4.12 ††	1.36 ††	2.86 ††	8.43 ††
52283	15A1	1.66	2.71	2.58	1.23	18.7	9.63	1.77	1.22	1.53	3.17	8.57	2.73
52386	15A1	0.6 ††	2.7	1.4 ††	0.7 ††	20.2	10	1.86	1.18	1.57	3.13	9	2.9
52387	15A1	1.75	3.1	2.88	1.2	18.9	9.85	1.62	1.01	1.5	3.11	8.67	2.71
52494	15A1	1.69	2.83	2.65	1.19	18.1	9.13 †	1.69	1.09	1.47	3.02	9.13	2.85
52526	15A1	1.4	2.7	2.4	1.1	19.5	9.9	1.8	1.1	1.4	2.8 †	8.9	2.8
52527	15A1	1.72	2.94	2.76	1.23	17.7		1.59	1.06	1.6	3.53 ††	9.59	3.13
52692	15A1	2.28 ††	4.4 ††	3.41 ††	1.01 ††	6.15 ††	9.62	0.92 ††	0.34 ††	1.93 ††	3.57 ††	10.1	3.32 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Exchangeable Na — 1M NH_4Cl extract (15A1) cmol+/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
20204	15A1	0.268 ††	0.235	0.197 ††	0.081	11.6	0.837	0.854	0.103	0.197	1.38	4.56	0.186
21083	15A1					7.6 ††	0.49 ††	0.14 ††	0.09	0.25 ††	1.7 ††	4.8 †	0.23
21104	15A1					13.1	1.1 ††	1.1 ††	0.28 ††	0.2	1.44	3.49 †	0.2
21182	15A1									0.19	1.41	4.44	0.19
21193	15A1	0.13	0.12	0.05	0.069	11.7	0.57 ††	0.65 ††	0.051 ††	0.16 ††	1.19	4.42	0.15
21232	15A1	0.157 †	0.19	0.067	0.083	11	0.807	0.847	0.11	0.197	1.37	4.22	0.165
50005	15A1	0.126	0.176	0.067	0.076	11.2	2.23 ††	0.834	0.114	0.191	1.38	4.21	0.185
50011	15A1	0.115	0.156	0.046	0.065	11.9	0.848	0.86	0.12	0.196	1.27	4.36	0.201
50012	15A1	0.093	0.14	0.051	0.065	9.5	0.55 ††	0.57 ††	0.038 ††	0.14 ††	1	3.2 ††	0.15
50013	15A1	0.1	0.2			10.2	0.9	0.9	0.1	0.2	1.1	3.8 †	0.2
50014	15A1	0.132	0.172	0.059	0.075	12.2	0.829	0.853	0.115	0.203	1.29	4.54	0.178
50017	15A1					11.6	1.27 ††	0.972	0.139				
50019	15A1					7.3 ††	0.37 ††	0.42 ††	0.03 ††				
50023	15A1	0.12	0.18	0.06	0.08	11.5	0.85	0.82	0.11	0.17 ††	1.31	4.23	0.17
50036	15A1	0.1	0.2			10.2	0.9		0.1	0.2	1.4	4.2	0.2
50038	15A1								0.076 †	0.21 †	1.38	4.37	0.16
52283	15A1	0.126	0.185	0.114 ††	0.075	10.8	0.792	0.666 †	0.154 ††	0.188	1.57	4.54	0.2
52386	15A1	0.2 ††	0.2	0.1 ††	0.1 ††	12.6	0.83	0.92	0.13	0.2	1.36	4.33	0.17
52387	15A1	0.123	0.179	0.061	0.07	11.3	0.847	0.866	0.126	0.159 ††	1.15	3.33 ††	0.14
52494	15A1	0.121	0.174	0.061	0.056	10.2	0.756	0.791	0.104	0.163 ††	1.23	3.91	0.149
52526	15A1	0.1	0.2	0.059	0.079	9.5	1 †	0.9	0.1	0.2	1.2	3.9	0.2
52527	15A1	0.181 †	0.236	0.115 ††	0.124 ††	10		0.796	0.149 ††	0.324 ††	1.48	4.3	0.223
52692	15A1	0.1	0.1 ††	0.18 ††	0.07	10.4	0.75	0.8	0.07 ††	0.19	1.33	3.95	0.18

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Exchangeable Ca — 1M NH_4OAc extract (15D3) cmol+/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
8888	15D3	4.18	27.9	6.01	2.58	0.437	35.5	6.86	1.6	2.18	11.1	27.3	27.5
10156	15D3	4.65	79.5 ††	7.71 ††	3.22 ††								
10166	15D3	10.9 ††	32.4 †	5.79 †	2.88	0.772 ††	35.1	7.81	1.78	2.83 ††	13.2 †	32.4 †	36.5 ††
10173	15D3	4.45	43.6 ††	7.43 ††	3.25 ††	0.471	43.7	7.66	2.02 ††	2.22	12.6	28.2	43.6 ††
10181	15D3	4.09	27.3	6.15	2.69	0.416	37	6.95	1.59	2.2	11	30	29
20204	15D3	4.41	28.3	6.29	2.78	0.503	40.9	7.27	1.65	2.14	11.4	29.7	28.7
21043	15D3	3.75	28	5.63 ††	2.42								
21088	15D3	3.97	31	6.2	2.7	0.44	41	6.8	1.6	1.99 †	11.6	28.6	32
21100	15D3	4.37	30.7	6.58 †	2.86	0.464	36.9	7.03	1.66	2.24	11.8	30.5	29.5
21190	15D3					0.209 ††	76.5 ††	12.1 ††	2.46 ††	2.31	15.8 ††	34.6 ††	82.9 ††
21229	15D3	4.22	28.8	6.17	2.8	0.4	39	6.62	1.51	2.17	11.2	29.3	28.3
21234	15D3									2.01	11.1	28.7	29.5
50005	15D3	4.07	37.7 ††	6.25	2.76	0.448	37.2	7.38	1.65	2.15	11.8	26.4 †	28.3
50006	15D3					0.4	45.3	6.75	1.59	2.63 ††	17.4 ††	49.8 ††	36.6 ††
50011	15D3	4.01	33.7 †	6.35	2.62	0.459	44.4	6.94	1.65	2.11	11.3	30.6	32.8 †
50018	15D3	4.06	27.5	6.15	2.63	0.452	39.9	7.32	1.65	2.25	10.8	29.9	28.3
50020	15D3					0.41	31.5 ††	5.55 ††	1.35 ††				
50024	15D3	4.21	29.1	6.18	2.86	0.431	38.1	7.19	1.71	2.17	12.4	29.8	30.1
50025	15D3	4.17	28.6	6.26	2.75	0.542 †	35.4	6.76	1.68	1.71 ††	10.9	27.8	29.2
50027	15D3	3.99	28.1	6.11	2.56	0.499	38.8	6.93	1.74	2.21	11.6	28.7	29.6
50029	15D3	4.43	27	6.35	2.84	0.489	39.7	7.13	1.8	2.4 ††	10.8	27.9	26.1
50032	15D3	3.46 ††	26.6	5.9	2.42	0.45	40.6	7.29	1.64				
52491	15D3	4.19	29.8	6.35	2.82	0.432	39.1	6.93	1.58	2.13	12	29.6	32.7 †
52508	15D3					0.76 ††	35.1	6.79	2.07 ††				
52673	15D3	2.8 ††	18.4 ††	4.06 ††	3.41 ††	0.34 ††	25.4 ††	4.81 ††	1.26 ††	2.42 ††	10.4	22.9 ††	26.4
52847	15D3									1.78 ††	9.89 †	26.3 †	23.9 ††
52880	15D3					27.5 ††	7980 ††	1170 ††	179 ††	1.99 †	348 ††	24.3 ††	500 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Exchangeable K — 1M NH_4OAc extract (15D3) cmol+/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
8888	15D3	0.16 †	1.84	0.404	0.248	0.926	0.506	0.765	0.737	0.14	2.85	0.973	1.87
10156	15D3	0.148	1.62	0.356	0.205								
10166	15D3	0.167 ††	1.93	0.381	0.244	1.11 ††	0.505	0.742	0.699	0.144	2.94	0.926	1.85
10173	15D3	0.148	1.98	0.463 ††	0.281	0.943	0.561	0.83	0.832 †	0.154 ††	2.99	1.04	1.97
10181	15D3	0.146	1.78	0.388	0.246	0.817 ††	0.464	0.717	0.705	0.145	3.03	0.93	1.92
20204	15D3	0.257 ††	1.51 ††	0.378	0.27	0.947	0.536	0.7	0.662	0.143	3	1.09	1.88
21043	15D3	0.128 ††	1.64	0.355	0.213								
21088	15D3	0.15	2.1	0.4	0.24	1.2 ††	0.64 ††	0.71	0.68	0.14	2.55 †	1.19 ††	2.05 †
21100	15D3	0.162 ††	1.97	0.417	0.272	0.962	0.553	0.807	0.822	0.12 ††	3.05	1.01	1.97
21190	15D3					1.04 ††	0.616	0.76	1.22 ††	0.154 ††	2.96	0.986	2
21229	15D3	0.147	1.86	0.396	0.253	0.916	0.52	0.776	0.779	0.14	2.93	0.948	1.84
21234	15D3									0.088 ††	1.86 ††	1.05	1.86
50005	15D3	0.144	1.97	0.392	0.244	0.921	0.559	0.721	0.717	0.141	2.68	0.977	1.89
50006	15D3					1.18 ††	0.653 ††	0.947 ††	0.95 ††	0.346 ††	3.8 ††	2.08 ††	3.17 ††
50011	15D3	0.141	1.95	0.403	0.24	0.916	0.516	0.747	0.742	0.156 ††	2.91	0.974	1.96
50018	15D3	0.145	1.83	0.387	0.219	0.928	0.524	0.753	0.656	0.135	2.52 ††	1.13	1.87
50020	15D3					0.8 ††	0.47	0.65 ††	0.61				
50024	15D3	0.144	1.81	0.388	0.246	0.881	0.489	0.72	0.721	0.127 ††	2.85	0.868	1.71 ††
50025	15D3	0.113 ††	1.9	0.367	0.21	0.937	0.545	0.74	0.707	0.143	2.8	0.913	1.86
50027	15D3	0.145	1.83	0.402	0.23	0.903	0.527	0.7	0.735	0.143	2.78	0.941	1.79
50029	15D3	0.152	2.15	0.397	0.233	0.996 †	0.566	0.771	0.655	0.142	2.75	1.33 ††	2.1 ††
50032	15D3	0.146	2.02	0.431 †	0.265	0.912	0.513	0.763	0.76				
52491	15D3	0.139	1.78	0.386	0.239	0.891	0.492	0.723	0.733	0.131 †	2.92	0.95	1.9
52673	15D3	0.03 ††	1.14 ††	0.2 ††	0.08 ††	0.52 ††	0.31 ††	0.46 ††	0.46 ††	0.01 ††	1.95 ††	0.48 ††	1.05 ††
52847	15D3									0.205 ††	2.88	0.876	1.83
52880	15D3					337 ††	172 ††	254 ††	268 ††	0.14	2.89	1.1	2.11 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Exchangeable Mg — 1M NH_4OAc extract (15D3) cmol+/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
8888	15D3	1.6	2.62	2.5	1.14	17.4	8.84	1.7	1.06	1.49	2.94	8.56	2.7
10156	15D3	1.47	3.66 ††	2.54	1.1								
10166	15D3	1.69	3.17	2.74	1.25	21.6 †	9.69	1.97 ††	1.16	1.48	3.15	8.66	2.93
10173	15D3	1.84 ††	3.3	3.03 ††	1.45	23 ††	10.3	1.93 †	1.26 ††	1.61	3.33	9.39	3.14
10181	15D3	1.67	2.7	2.61	1.25	19	9.66	1.8	1.11	1.59	3.12	9.74 †	2.89
20204	15D3	1.78	2.31 ††	2.64	1.24	18.8	9.67	1.84	1.1	1.58	3.19	9.45	2.93
21043	15D3	1.47	2.47	2.33 ††	1.08								
21088	15D3	1.5	2.9	2.5	1.1	19	9.2	1.5 ††	0.95 ††	1.35 ††	2.86	8.43	2.75
21100	15D3	1.74	2.96	2.68	1.33	18.5	9.74	1.8	1.15	1.63	3.17	9.29	2.97
21190	15D3					20.2	8.78	1.68	1.02	1.35 ††	2.91	8.53	3.73 ††
21229	15D3	1.68	2.81	2.58	1.25	19.1	9.49	1.73	1.09	1.51	2.99	8.88	2.8
21234	15D3									1.54	3.1	5.09 ††	2.77
50005	15D3	1.6	3.24	2.62	1.24	19.1	10.5	1.74	1.08	1.51	2.98	8.16	2.83
50006	15D3					19	8.58	1.5 ††	0.702 ††	1.73 ††	3.68 ††	8.96	3.1
50011	15D3	1.62	2.93	2.67	1.2	20	10.2	1.77	1.12	1.53	2.99	9.34	2.99
50018	15D3	1.62	2.68	2.59	1.17	19.1	9.49	1.85	1.14	1.54	2.97	8.76	2.83
50020	15D3					17	8.55	1.5 ††	0.96 ††				
50024	15D3	1.7	2.8	2.64	1.31	17.5	8.93	1.77	1.15	1.61	3.31	8.81	2.85
50025	15D3	1.82	3.21	2.88 ††	1.37	18.2	9.77	1.83	1.17	1.5	2.94	9.13	2.94
50027	15D3	1.62	2.82	2.61	1.18	19.1	9.37	1.76	1.14	1.53	3.06	8.73	2.75
50029	15D3	1.65	2.58	2.54	1.17	20	9.02	1.74	1.08	1.54	2.85	8.64	2.53
50032	15D3	1.56	2.83	2.58	1.19	19.5	10.3	1.75	1.1				
52491	15D3	1.62	2.76	2.57	1.24	16.9	9.37	1.76	1.08	1.44	2.89	8.63	2.79
52508	15D3					14 ††	5.9 ††	0.89 ††	1.1				
52673	15D3	2.68 ††	3.88 ††	3.65 ††	2.01 ††	4.59 ††	4.47 ††	2.61 ††	1.51 ††	1.68 ††	2.51 ††	2.74 ††	2.52 ††
52847	15D3									1.15 ††	3.04	8.48	2.8
52880	15D3					2330 ††	1150 ††	165 ††	91.1 ††	1.53	3.38	10 ††	3.1

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Exchangeable Na — 1M NH_4OAc extract (15D3) cmol+/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
8888	15D3	0.126	0.152	0.056	0.074	10.9	0.739	0.825	0.111	0.205 ††	1.31	4.14	0.18
10156	15D3	0.226 ††	0.328 ††	0.112 ††	0.143 ††								
10166	15D3	0.134	0.189	0.093 ††	0.111 ††	7.72 ††	0.646	0.662 ††	0.131 †	0.191	1.17	3.36 ††	0.2
10173	15D3	0.215 ††	0.223	0.168 ††	0.177 ††	6.06 ††	0.792	0.86	0.153 ††	0.212 ††	1.32	4.2	0.206 †
10181	15D3	0.123	0.15	0.057	0.075	11	0.72	0.807	0.102	0.187	1.32	4.21	0.16 †
20204	15D3	0.263 ††	0.228	0.192 ††	0.083	11.7	0.828	0.829	0.099	0.188	1.38	4.64 ††	0.185
21043	15D3	0.113	0.143	0.054	0.07								
21088	15D3	0.14	0.23	0.074	0.08	10	0.91	0.75 †	0.11	0.188	1.42	4.7 ††	0.234 ††
21100	15D3	0.163 ††	0.177	0.076 †	0.103 †	10.6	1.06 ††	1.09 ††	0.413 ††	0.223 ††	1.33	4.62 ††	0.188
21190	15D3					15.6 ††	0.884	0.82	0.089 †				
21229	15D3	0.123	0.157	0.063	0.081	11.2	0.769	0.841	0.102	0.185	1.29	4.2	0.183
21234	15D3									0.202 †	1.34	3.8 ††	1.9 ††
50005	15D3	0.129	0.198	0.051	0.083	11.1	2.17 ††	0.85	0.111	0.178	1.39	4.28	0.177
50006	15D3					12.8 ††	0.55 ††	0.591 ††	0.098	0.112 ††	1.38	5.76 ††	0.101 ††
50011	15D3	0.13	0.166	0.063	0.082	12.4 †	0.787	0.82	0.111	0.192	1.25	4.31	0.175
50018	15D3	0.107	0.182	0.062	0.069	11.2	0.798	0.726 †	0.112	0.147 ††	1.38	3.71 ††	0.179
50020	15D3					8.95 ††	0.69	0.69 ††	0.17 ††				
50024	15D3	0.135	0.164	0.059	0.085	11.6	0.787	0.84	0.109	0.184	1.38	4.18	0.168
50025	15D3	0.176 ††	0.206	0.109 ††	0.128 ††	11.3	0.833	0.836	0.135 †	0.185	1.23	4.11	0.184
50027	15D3	0.12	0.162	0.057	0.073	10.9	0.785	0.775	0.118	0.188	1.25	4.08	0.183
50029	15D3	0.121	0.189	0.061	0.069	9.9	0.934	0.839	0.11	0.188	1.39	4.28	0.216 †
50032	15D3	0.124	0.176	0.065	0.083	10.6	0.693	0.757	0.124				
52491	15D3	0.123	0.155	0.056	0.077	11	0.737	0.793	0.107	0.183	1.29	4.2	0.166
52847	15D3									0.289 ††	1.41	4.58 ††	0.25 ††
52880	15D3					2110 ††	252 ††	138 ††	164 ††	0.11 ††	1.45	3.7 ††	0.97 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Exchangeable Al — 1M KCl (15G1) cmol+/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
20204	15G1	0.359	0.006	0.01	0.343	0.196	0.006	0.014	0.86	0.023	0.0083	0.0056	0.006
21083	15G1									0.38 ††	0.3 ††	0.29 ††	0.24 ††
21088	15G1	0.57	0.008	0.007	0.41	0.18	0.01	0.01	0.87	0.012	0.014	0.009	0.007
21100	15G1	0.543	0.010	0.009	0.407	0.222	0.017 †	0.0526 †	1.05	0.0281	0.0481	0.0238	0.0235 ††
21229	15G1	0.35	0.004	0.008	0.344	0.222	0.001	0.0085	1.08	0.0387	0.0273	0.00923	0.00776
21232	15G1	0.627	0.04 ††	0.122 ††	0.427	0.228	0.041 ††	0.153 ††	1.05	0.053	0.154 ††	0.032 †	0.04 ††
50005	15G1	0.389	0.004	0.004	0.375	0.205	0.004	0.0043	0.772	0.0164	0.0193	0.0159	0.00531
50011	15G1	0.524	0.002	0.002	0.318	0.161	0.005	0.005	0.986	0.005	0.005	0.005	0.005
50013	15G1	0.4			0.4	0.2			1				
50014	15G1	0.491	0.001	0.010	0.284	0.211	0.016 †	0.0152	1.04	0.001	0.001	0.0011	0.001
50018	15G1	0.522	0.004	0.012	0.394	0.201	0.004	0.022	0.812	0.0136	0.0163	0.0043	0.0055
50027	15G1	0.56	0.002	0.001	0.416	0.197	0.002	0.002	0.877	0.007	0.005	0.002	0.002
50029	15G1	0.442	0.137 ††	0.12 ††	0.47	0.144	0.065 ††	0.12 ††	0.663	0.104 ††	0.0925 ††	0.0432 ††	0.147 ††
50032	15G1	0.503	0.016	0.004	0.348	0.168	0.004	0.03	0.979				
52386	15G1	0.6	0.01	0.02	0.46								
52494	15G1	0.61	0.017	0.034 ††	0.339	0.22	0.003	0.085 ††	1.15	0.102 ††	0.17 ††	0.01	0.01
52526	15G1	0.6	0.026 †		0.4	0.3 ††			1	0.024			
52527	15G1	0.353		0.338 ††	0.322	1.31 ††	0.335 ††	0.361 ††	0.652	0.504 ††		0.335 ††	

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Extractable K — Bicarbonate (18A1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
20204	18A1	64	473	164	109	438	144	420 ††	344	63.2	1350	302	581
21088	18A1	45.2	570	140	78.1	440	140	310	340	55	1180	300	600
21100	18A1	86.9	483	208 ††	122	378	174 †	373 ††	378	56.1	1260	212	489
21193	18A1	43	597	152	224 ††	373	130 †	293	306	22 ††	1250	288	613
21229	18A1	47.8	614	153	87	443	144	310	331	72.4	1350	311	645
21232	18A1	76.2	643	175	124	447	141	328	343	68.6	1320	346	749 ††
50005	18A1	82.7	819 ††	187	99.1	440	187 †	302	333	64.9	1420	249	568
50011	18A1	58.5	641	162	96.3	426	144	316	349	68.9	1030	286	588
50012	18A1	55	570	150	80								
50017	18A1	55.1	513	131									
50027	18A1	60	607	143	92	402	142	303	323	72	1070	285	579
52387	18A1	67	564	151	99	362	119 †	269 ††	289	31	1050	258	548
52494	18A1	47	547	135	86	397	113 †	309	309	49	1110	238	520
52508	18A1					9.1 ††	11 †	85.3 ††	25.8 ††				

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Total Organic Matter (6G1) %											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
21083	6G1									0.77	6.1	2.5	3.9
21088	6G1	3.9	2.5	2.8	7.6	0.44	2.2	3.6	1.7	0.81	6.15	2.44	2.37
21182	6G1									0.8	3.3 ††	2.9	2.9
50005	6G1	4.44	4.09	3.43	7.63	0.241	1.82	4.34	1.88	0.861	7.05 ††	2.83	3.11
50020	6G1					0.42	2.25	3.68	1.52				
50029	6G1	6.06	3.17	5.95 ††	7.38 †	1.09	3.7	3.41	2.05	1.15 ††	5.92	3.79 ††	2.81
50036	6G1	4.36	2.41	2.8	7.9 †	0.6	2.6	3.8	1.4	0.9	6.3	2.6	2.6
52494	6G1	6.29	3.22	6.76 ††	7.66	1.16	3.64	3.37	2.29	1.53 ††	7.29 ††	4.33 ††	3.77
52508	6G1					0.495	1.44	1.16 ††	0.861				
52526	6G1	3.8	2.3	2.5	6.4 ††	0.193	1.8	3.6	1.5	0.8	6.1	2.6	2.4
52565	6G1									0.742	6.11	2.49	2.49
52874	6G1	8.58 ††	5.79 ††	13.7 ††	9.45 ††	5.61 ††	8.2 ††	4.45	4.24 ††				
52894	6G1									2.54 ††	7.57 ††	6.51 ††	5.37 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Extractable Al – Mehlich3 (18F1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
22	18F1	1060	433	791	393	392	720	504	788	512	440	755	427
8888	18F1	1110	461	832	422	399	785	534	850	579 †	457	852	498
10156	18F1	1120	427	843	427	361	750	432 ††	698	490	427	447 ††	803 ††
21083	18F1					450 †	880 ††	580 ††	870	500	430	910	490
21100	18F1	1080	486	781	425	418	727	486	667	413 ††	702 ††	782	175 ††
21178	18F1	980	450	700	370	410	740	510	760	490	430	790	420
21229	18F1	1070	494	806	402	400	782	521	789	517	458	814	451
21232	18F1	1030	438	747	384	410	715	509	798	566	470	818	453
50005	18F1	1120	450	792	409	400	730	484	664	512	440	784	453
50014	18F1	1020	473	746	390	339 ††	588 ††	436 ††	649	500	425	791	476
50018	18F1	1030	426	756	406	405	749	505	801	478	430	770	449
50020	18F1					384	765	484	760				
50024	18F1	1140	429	836	434	352	735	501	690	635 ††	504 ††	878	416
50027	18F1	1320 †	165 ††	920	434	381	805	497	789	540	448	900	328 ††
50038	18F1									605 ††	462	788	396 †
50042	18F1	128 †	21 ††	86 ††	35 ††	44 ††	86 ††	40 ††	63 ††				
52283	18F1	1040	473	789	411	417	762	473	741	506	431	841	424
52491	18F1	1120	415	818	455								
52565	18F1	1490 †	511	1150 ††	506 ††	413	776	568 ††	751	510	443	718	449
52636	18F1	1160	535 ††	907	415	441	844 †	609 ††	892	526	469	738	454
52874	18F1	708 †	298 ††	460 ††	365	379	628 ††	497	681	464	459	660 †	387 †

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Extractable B – Mehlich3 (18F1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
22	18F1	0.24	3	0.822	0.224	0.085	2.53	0.643	0.208	0.096	1.25	2.03	3.11
8888	18F1	0.48	3.13	1.03	0.45 †								
10156	18F1	0.2	3.2	0.9	0.3		2.7	0.7	0.2		1.1	2.9 ††	1.8 ††
21083	18F1					0.62 ††	3.5 ††	1.3 ††	0.72 ††	0.49 ††	2 ††	2.3	3.4
21100	18F1	0.323	3.2	0.714	0.27	0.556 ††	1.11 ††	0.636	2.9 ††	1.29 ††	33.3 ††	5.43 ††	13.6 ††
21178	18F1					0.4 ††	2.6	1.5 ††	0.7 ††	0.1	1.1	2	3.1
21229	18F1	0.238	4.42 ††	1	0.261	0.09	2.48	0.58	0.341	0.0917	1.31	2.2	3.33
21232	18F1	0.37	3.05	0.773	0.425 †	0.2 †	2.28	0.733	0.345	0.355 ††	1.46	2.12	3.21
50005	18F1	0.237	3.2	0.631	0.248	0.09	2.42	0.736	0.218	0.0989	1.02	1.33 ††	3.24
50014	18F1	0.205	3.45	0.794	0.213	0.0844	2.57	0.636	0.159	0.06 †	1.27	2.28	3.58
50018	18F1	0.296	3.24	0.812	0.321	0.089	2.46	0.698	0.209	0.086	1.36	1.98	3.22
50020	18F1						2.7						
50024	18F1	0.099	2.75	0.661	1.41 ††	0.01 †	2.03 †	0.35 ††	0.01 †	0.05 †	1.25	1.87	3.18
50027	18F1	0.16	3.42	0.83	0.221	0.104	2.9	0.669	0.14	0.138 †	1.42	2.35	3.54
50038	18F1									3.43 ††	4.51 ††	1.43 ††	4.45 ††
50042	18F1	0.16	0.2 ††	0.15 ††	0.16	0.19 †	0.15 ††	0.12 ††	0.19				
52283	18F1	0.483	3.29	1.21	0.256	0.136	2.88	1.16 ††	0.662 ††	0.129	1.64 †	1.64	2.33 ††
52491	18F1	0.948 ††	2.31 ††	0.288 †	2.35 ††								
52565	18F1	2.31 ††	3.88 †	1.16	1.64 ††	0.299 †	2.77	0.645	0.296	0.5 ††	1.29	2.27	3.54
52636	18F1	0.8 ††	3.99 ††	1.57 ††	0.7 ††	0.37 ††	3.28 ††	0.832 †	0.24	0.1	1.26	2.21	3.3
52847	18F1									0.405 ††	1.47	1.68	2.51 ††
52874	18F1	0.5	2.2 ††	0.5	0.5 †	0.28 †	2.2	0.82 †	0.36	0.1	0.27 ††	0.49 ††	1.86 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Extractable Ca – Mehlich3 (18F1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
22	18F1	765 †	8370	1270	532	73.7	11000	1450	320	421	2440	5530	8750
10156	18F1	819	7940	1250	533	107 ††	10800	1430	336	445	2500	5830	8640
21083	18F1					93	9400 †	1800	410 ††	450	2800	5500	11000 ††
21100	18F1	836	9050	1300	552	84.6	10200	1620	327	401	3470 ††	5110	9150
21178	18F1	790	9170	1220	530	90	11700	1700	330	410	2600	5700	10000
21229	18F1	840	8500	1340	615	84	10900	1630	360	443	2610	5650	8750
21232	18F1	860	9620	1340	580	91	12000 ††	1620	359	481	2710	6210 ††	9690
50005	18F1	831	10100	1310	584	82.1	8520 ††	1260 ††	348	447	2450	5070	8730
50014	18F1	812	7800	1270	555	74.1	10700	1450	308	426	2340	5590	7990
50018	18F1	846	8740	1310	601	81.5	10400	1560	337	438	2740	5380	8740
50020	18F1					81.5	10800	1510	337				
50024	18F1	837	7130	1280	607	83	10200	1710	318	478	2880	5600	7990
50027	18F1	843	7180	1340	580	91.3	10000	1760	351	477	2970	5410	9410
50038	18F1									330 ††	2230	4480 ††	7470
50042	18F1	124 ††	1190 ††	180 ††	63 ††	26 ††	1250 ††	196 ††	39 ††				
52283	18F1	851	9610	1370	584	79.8	10700	1680	344	443	2690	5520	9690
52491	18F1	786	10200	1230	557								
52565	18F1	932 ††	9170	1270	572	76.5	10100	1680	313	428	2550	5220	8660
52636	18F1	793	6850	1270	560	74.5	10300	1660	326	426	2640	5350	8750
52874	18F1	8.54 ††	16300 ††	995 ††	642 ††	129 ††	9480 †	1630	392 ††	472	2880	5110	9350
52880	18F1									437	2790	4830 ††	9970

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Extractable Cu - Mehlich3 (18F1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
22	18F1	1.32	2.01	8.49	0.459	3.78	2.13	3.14	2.49	0.343	2.9	2.86	1.99 †
8888	18F1	1.36	2.46	8.52	0.33	3.81	2.2	3.1	2.5	0.334	2.85	3.14	2.28
10156	18F1	0.97 ††	1.47 ††	5.29 ††	0.31	3.5	1.9	2.5 †	2.1	0.22 ††	2.1	2.06 ††	1.69 ††
21083	18F1					4.4 ††	2.6 ††	3.6 ††	2.6	0.32	3.3	3.2	2.3
21100	18F1	1.33	2.25	8.49	0.449	3.97	2.24	3.27	2.55	0.205 ††	4.28 ††	2.7	1.27 ††
21178	18F1	1.2	2.4	8	0.2	4	2.3	3.2	2.4	0.3	3.1	3.3	2.3
21229	18F1	1.27	2.15	8.44	0.191	3.65	1.98	3.05	2.38	0.329	1.19	2.95	2.1 †
21232	18F1	1.28	2.11	7.89	0.265	3.82	2.09	3	2.34	0.445 ††	1.68	3.12	2.34
50005	18F1	1.52 †	2.08	8.16	0.419	3.61	2.21	1.63 ††	2.05	0.325	2.46	2.42 †	2.2
50012	18F1	1.12 †	2.48	8.03	0.071	3.8	2.2	2.9	2.2	0.3	2.2	2.9	2.1 †
50014	18F1	1.31	2.2	8.15	0.46	3.42	1.85	2.87	2.07	0.341	2.95	3	2.3
50018	18F1	1.24	2.2	7.61	0.326	3.65	2.03	2.95	2.32	0.273	2.83	2.9	2.26
50020	18F1					3.4	2	2.95	2.25				
50024	18F1	1.35	2.4	8.35	0.274	2.98 ††	1.87	2.73	1.74 ††	0.334	2.51	2.97	2.37
50027	18F1	1.3	2.33	8.95	0.316	3.64	2.18	3.07	2.59	0.294	2.36	3.32	2.12
50038	18F1									0.26	1	3.67 ††	2.99 ††
50042	18F1	0.003 ††	0.17 ††	1.21 ††	0.14	0.57 ††	0.23 ††	0.17 ††	0.02 ††				
52283	18F1	1.32	2.01	9.97 ††	0.423	3.73	2.07	3.05	2.48	0.305	3	2.86	1.89 ††
52491	18F1	1.03 ††	2.51	8.12	0.322								
52565	18F1	1.45	2.53	8.64	0.34	3.84	2.18	2.65	2.44	0.313	1.13	2.94	2.33
52636	18F1	1.11 †	1.24 ††	6.67 ††	0.33	4.09	2.36	2.73	2.63	0.28	1.01	3.12	2.33
52847	18F1									0.308	1.21	2.83	2.32
52874	18F1	0.652 ††	1.33 ††	5.4 ††	0.12	3.55	1.78	3.5 †	2.2	0.06 ††	1.6	2.36 †	2.07 †
52880	18F1									0.37	1.89	3.41	2.3

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Extractable Fe – Mehlich3 (18F1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
22	18F1	377	25.1	90.7	586	128	60.1	332	234	317	426	117	22.2
8888	18F1	380	22.2	86.1	575	130	53.7	345	251	395 †	439	135	24.2
10156	18F1	5.21 †	3.29 ††	10.1 ††	3.03 ††	132	61.4	260	195	257	348	94.8	18.9
21083	18F1					140	64	350	260	300	430	120	21
21100	18F1	327	22.3	73.5	528	122	59.2	299	215	238	736 ††	99	18.3
21178	18F1	330	21	74	480 †	140	54	320	230	330	460	120	19
21229	18F1	372	30.3	75.7	529	142	62	320	234	323	389	129	23.7
21232	18F1	365	24.1	81.3	546	169	70 †	379	293	377	418	139	28.9
50005	18F1	365	24.4	84.9	581	145	64.7	228 †	204	303	430	128	24.3
50012	18F1	294 †	25	63.7	476 †	120	51 †	270	200	270	330	98	18
50014	18F1	354	21.9	68.5	563	111	42.8 ††	273	188	300	441	125	23.8
50018	18F1	323	20.6	78.6	590	144	59.8	335	241	286	396	101	24.1
50020	18F1					127	59	294	214				
50024	18F1	385	27.1	81.9	578	130	66.2	337	201	390	474	145	31
50027	18F1	375	25.7	78.2	573	137	63.5	331	231	362	447	151	25.3
50038	18F1									425 ††	422	147	31.9 ††
50042	18F1	39 †	2.1 ††	5.1 ††	50 ††	28 ††	8.7 ††	41 ††	24 ††				
52283	18F1	373	25.7	104 †	584	150	63.1	357	253	299	415	118	19.3
52491	18F1	353	20.6	72.4	543								
52565	18F1	436 †	34.2 ††	119 ††	685 ††	147	61.4	345	240	301	351	118	25.5
52636	18F1	333	32.7 †	62.5	502	170	74.3 ††	380	279	315	359	124	24.8
52847	18F1									337	354	113	28.5
52874	18F1	194 †	9.9 ††	41.6 ††	404 ††	128	53.6	324	208	284	366	83.9 †	19.1
52880	18F1									454 ††	470	3.36 ††	26.4

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Extractable K – Mehlich3 (18F1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
22	18F1	55	676	147	91.9	315	175	290	282	60.5	1110	325	684
8888	18F1					4.37 ††							
10156	18F1	55.7	720	138	94.1	309	178	282	266	60	1190	347	740
21083	18F1					370 ††	220 ††	340 ††	320	62 †	890 ††	330	620 ††
21100	18F1	62.9	706	150	99.7	340	176	293	243	44.4 ††	1140	307	362 ††
21178	18F1	62	650	150	107 †	340	180	320	300	59	1100	330	670
21229	18F1	56.5	746	153	100	326	180	297	287	58.6	1130	343	714
21232	18F1	58.9	714	147	94.2	337	179	299	288	63.3 ††	1090	344	708
50005	18F1	62.2	768	159	93.1	330	190	244 ††	214 †	59.3	1130	296	700
50014	18F1	58	722	145	95.9	309	171	297	274	59.1	1100	349	737
50018	18F1	54.8	708	153	93.3	328	184	296	253	54.3 ††	1000 †	402 ††	710
50020	18F1					319	182	300	288				
50024	18F1	56.3	710	147	98.7	278	165	272	231	59.4	1120	328	693
50027	18F1	57	700	140	93	300	177	289	271	59	1080	330	709
50042	18F1	8.6 ††	42 ††	13 ††	8.3 ††	13 ††	9.6 ††	11 ††	9.7 ††				
52283	18F1	54.1	647	155	90.5	321	186	230 ††	256	59.8	1220 ††	374	667
52491	18F1	54.6	682	145	94.9								
52565	18F1	63.5	776	167 ††	102	350	189	308	276	63 ††	1050	309	688
52636	18F1	65.4 ††	769	161	102	323	192	316	293	69.9 ††	1080	324	706
52874	18F1	49	653	120 ††	89	364	165	302	241	58.6	1210 †	301	717
52880	18F1									71 ††	1040	310	696

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Extractable Mg – Mehlich3 (18F1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
22	18F1	189	388	318	139	2200	1310	223	129	188	389	1080	394
10156	18F1	184	371	276 ††	122 ††	2000 †	1290	223	126	175 ††	388	1020	409
21083	18F1					2600 ††	1500 †	290 ††	160	180 †	400	1100	420
21100	18F1	204	437	322	146	2100	1190	249	127	168 ††	462	971 †	302 ††
21178	18F1	200	430	305 †	150	2000 †	1200	250	135	180 †	390	1100	420
21229	18F1	203	421	331	156	2140	1300	244	144	191	423	1100	416
21232	18F1	202	414	327	145	2180	1230	237	140	196	423	1100	434
50005	18F1	219	471 ††	330	156	2180	1480 †	233	145	193	393	946 ††	416
50012	18F1									42 ††	25 ††	210 ††	110 ††
50014	18F1	199	413	322	146	1940 ††	1180	229	128	188	396	1100	426
50018	18F1	210	426	330	158	2160	1270	242	140	196	415	1080	418
50020	18F1					2160	1350	234	143				
50024	18F1	205	411	328	155	2280	1330	250	123	197	438	1120	433
50027	18F1	209	412	325	149	2080	1230	255	141	196	429	1080	446
50038	18F1									143 ††	347 †	935 ††	405
50042	18F1	21 ††	52 ††	39 ††	4.9 ††	234 ††	148 †	17 ††	11 ††				
52283	18F1	199	418	320	148	2180	1260	232	138	199	390	1100	384
52491	18F1	189	401	304 †	142								
52565	18F1	234 ††	495 ††	370 ††	177 ††	2230	1200	247	130	197	412	978 †	414
52636	18F1	212	458	339	162	2180	1200	253	137	192	420	988 †	410
52874	18F1	199	461 †	290 ††	158	2220	1090	242	152	199	464	991 †	436
52880	18F1									196	399	970 †	383 †

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Extractable Mn – Mehlich3 (18F1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
22	18F1	76	118	588	45.7	4.89	146	13.3	222	40.5	27.1	283	115
8888	18F1	83.4	137	658	46.3	5.45	176	14.1	262	53.7 ††	29.5	344	144
10156	18F1	60.8	101 ††	524	33.8 ††	5.5	165	12.5	211	35.5	23.8	298	121
21083	18F1					6.6 ††	160	17 †	270	44	31	240	130
21100	18F1	87.6	122	504	43.1 †	4.68	143	12	195	35.7	37.1 ††	267	75.8 ††
21178	18F1	84	130	510	46	5.2	140	14	230	41	29	290	130
21229	18F1	74.3	126	473	46.9	5.4	152	13.7	238	44.2	31.5	261	140
21232	18F1	77.2	127	526	45.5	5.51	146	13.2	237	52.2 ††	31.7	287	139
50005	18F1	91.2	131	542	46.4	5.19	143	12.3	338 ††	39.5	27.7	272	132
50012	18F1	98.9	143	482	48.1	5.2	120	13	200	42	25	210	110
50014	18F1	75.2	134	561	46.8	5.12	128	12.7	222	41.5	28.4	327	136
50018	18F1	88.5	125	604	44.1	5.22	158	14.2	234	41.6	28.3	296	129
50020	18F1					5.25	143	12.5	222				
50024	18F1	89.3	128	588	47.7	4.93	157	14.5	201	55.4 ††	29.6	332	139
50027	18F1	82.8	140	555	49	5.65	172	18.6 ††	241	47.5	29.8	329	125
50038	18F1									53 ††	25	291	118
50042	18F1	5.4 ††	11 ††	81 ††	3.8 ††	8.5 ††	21 ††	7.1 ††	19 ††				
52283	18F1	88.6	125	755 ††	46.6	5.59	153	14.7	250	40.9	30.6	257	123
52491	18F1	103	139	619	51.8 ††								
52565	18F1	99.7	131	671	46.4	4.79	135	14.6	207	43.8	27.1	246	122
52636	18F1	115	131	480	48.9	5.62	161	15.8	241	45.1	27.6	230	123
52847	18F1									65.9 ††	42.8 ††	256	120
52874	18F1	78.6	102 ††	433	48.5	5.4	124	13.3	210	49.3	32.1	218	127
52880	18F1									59.3 ††	28.2	326	124

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Extractable Na - Mehlich3 (18F1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
22	18F1	27.3	34.5	14.8	17	2670	166 †	183	25	44.5	290	944	37.7 †
10156	18F1	28.1	36.4	9.95 †	15 †	2600	181	196	24.7	46	322	1090	43.7
21083	18F1					3030 †	220 ††	208	37 ††	50 †	300	1100	54 ††
21100	18F1	42.8 ††	46.1	20.1	27.2 ††	2090	182	167	22.3	33.4 ††	282	729	31.5 ††
21178	18F1	34 †	53	16	21 †	2400	220 ††	210	27	46	320	920	52 ††
21229	18F1	29.8	42.5	13.3	18.3	2630	178	197	25.8	46.6	329	1030	43.1
21232	18F1	29.5	44.9	14.7	17.8	2720	177	194	30.6 ††	47.6	314	860	43.1
50005	18F1	31	20.7 ††	16.7	18.7	2640	484 ††	181	28.1	45.5	287	778	43
50014	18F1	28.5	40.1	13.5	18.2	2410	166 †	187	23.5	44.3	289	964	41.1
50018	18F1	28.6	47	16.4	18.2	2640	178	166	25.8	34.3 ††	271	782	43.3
50020	18F1					2370	169	177	26				
50024	18F1	29.3	38.8	14	18.6	2270	177	197	21 ††	47.9	331	987	42.5
50027	18F1	28.7	38.1	13.6	19	2340	183	193	26.3	46.2	302	924	45.7 †
50038	18F1									91 ††	333	907	121 ††
50042	18F1	18 ††	20 ††	16	15 †	736 ††	77 ††	71 ††	24				
52283	18F1	36.4 ††	48.2	30.7 ††	19.1	2590	135 ††	139 ††	39.1 ††	43.9	306	924	46.2 †
52491	18F1	24.4 †	17.4 ††	1.32 ††	7.73 ††								
52565	18F1	32	43	16.4	19.8	2480	179	205	26.1	45.9	287	833	43.2
52636	18F1	40.2 ††	47.2	19.1	20.4	2410	176	203	26.8	47.2	296	852	41.3
52874	18F1	33 †	53	16	30 ††	2420	156 ††	208	45 ††	71.5 ††	325	874	82.9 ††
52880	18F1									63.1 ††	297	815	48.1 †

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Extractable P – ICP — Mehlich3 (18F1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
22	18F1	12.1	62.4	8.53	31.4	4.45	3.06	62.4	33.7	8.75	188	9.37	59.6
8888	18F1	11.4	65.7	8.55	32.2	4.37	4.22	64	32.7	9.02	190	11.2	64.8
10156	18F1	14.3	72.9	9.37	32.7	4.1	4.2	62.7	32.6	9.7	210 †	12.7	78.5
21083	18F1					4.6	4.5	85 ††	40	7.3	190	11	71
21100	18F1	12.2	68.7	7.36	32.6	5.95 ††	19.5 ††	65.1	27.7	7.61	264 ††	18.3 ††	64.5
21178	18F1	11	73	7.9	30 ††	4.6	3.8	72	35	9.4	250 ††	13	85 ††
21229	18F1	12.1	72	8.71	32.4	3.8	2 ††	65.4	32.1	7.86	190	10.7	67.6
21232	18F1	14.8	71.6	8.67	31.6	4.61	4.1	70.2	36.8	8.56	198	11.5	73.1
50005	18F1	12.3	64.8	8.39	31.6	4.28	3.74	72.8	36	8.45	188	11.1	67.5
50014	18F1	13	75.1	8.27	32.2	4.05	3.32	61.3	30.4	8.76	194	11.7	74.4
50018	18F1	11.6	63.2	7.2	31.6	4.21	3.61	65.1	31.8	8.1	193	9.64	67.6
50020	18F1					7.25 ††	7.9 ††	62.5	36				
50024	18F1	11.1	66	7.61	32	3.81	2.61	63.8	28.2	8.91	193	9.81	69.8
50027	18F1	15.5	69.7	11.6 †	31.8	5.02	3.4	65.6	32.5	9.17	216 †	13.6	73.7
50038	18F1									8.81	194	11.9	69.4
50042	18F1	7 ††	3 ††	3.3 ††	3.2 ††	3.5	3.6	0.33 ††	2.2 ††				
52283	18F1	17.5 ††	63.6	9.6	31.7	4.26	3.67	68.5	36.7	7.96	192	11	66
52491	18F1	9.86	59	7.23	31.1								
52508	18F1					12.3 ††	20.7 ††	58	35				
52565	18F1	24.6 ††	136 ††	23.2 ††	54.1 ††	8 ††	19.9 ††	90.8 ††	44.7 †	11.9 ††	257 ††	18.2 ††	100 ††
52636	18F1	20.4 ††	118 ††	19.3 ††	43.1 ††	6.43 ††	5.02	89 ††	44 †	13.4 ††	273 ††	19.6 ††	114 ††
52847	18F1									7.98	170 †	8.38	52.1 ††
52874	18F1	5.7 ††	44 ††	4.7 ††	23.8 ††	6.3 ††	4.7	59	27	7.45	201	10.6	66.9
52880	18F1									8.08	235 ††	4.5 ††	64.5

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Extractable S - Mehlich3 (18F1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
22	18F1	33.6	32.5	26.4	24.5	3.72	17.4	60	25.1	9.34	259	45.7	33
21083	18F1					5.5 †	25 †	78 ††	30 ††	8	280	50	36
21100	18F1	31.4	34.1	20.5	26.9	2.94	15.2	58	20.3	8.94	299	47.8	24.5 ††
21178	18F1	29	35	22	22	3	20	62	23	8	260	46	35
21229	18F1	30.7	29.8	22.5	23.3	3.2	17.3	65.7	27.1	8.5	278	46.3	34.1
21232	18F1	33.5	34.9	26.4	24.1	3.81	18.6	64.5	26.1	9.38	274	49.7	35.9
50005	18F1	32.4	30.8	25.6	22.7	3.71	15.2	57.4	24	8.21	234	46.1	35.1
50012	18F1									7.8	301	48	25 ††
50014	18F1	35.2	35.2	26.4	25.1	2.99	16.7	60.6	23.2	9.06	246	49.4	35.7
50018	18F1	29.8	30.7	23.2	23.6	3.63	17.6	59.1	22.7	7.92	275	44.1	35.2
50020	18F1					6.84 ††	13.6	54.5	27.5				
50024	18F1	37.9	41.9	32.2	29.5 ††	7.1 ††	34.8 †	63.1	24.9	8.47	265	49.2	41.9 ††
50027	18F1	34.7	31	29.2	23.8	4	16.4	55.4	24.8	8.3	262	48.4	34.2
50038	18F1									0.99 ††	23.8 ††	8.9 ††	10.3 ††
50042	18F1	2.1 ††	0.64 ††	3.6 ††	4.5 ††	6.7 ††	4.1 †	2.5 ††	3.7 ††				
52283	18F1	26.9	63.9 ††	23.6	20.7	3.39	64.6 †	58.6	22.5	8.31	248	95.3 ††	123 ††
52491	18F1	37.3	42.9	30.8	30.5 ††								
52565	18F1	34.4	49.3	25.8	25.3	7.3 ††	29.9 †	70.1	22.8	11.4 ††	313	60.8 ††	51.8 ††
52636	18F1	54.2 ††	48.8	34.7	30 ††	6.71 ††	28.6 †	62.9	24.8	11.7 ††	327	62.3 ††	52.2 ††
52847	18F1									12.7 ††	324	47.5	37.1
52874	18F1					5.7 †	15	62	25	23.1 ††	295	55.3 †	52.8 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Extractable Zn — Mehlich3 (18F1) mg/kg											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
22	18F1	3.61	2.29	10.5	3.09	2.72	0.516	12.3	3.15	0.83	16.8	2	2.5
8888	18F1	4.08	2.8	10.8	3.21	2.74	0.62	13	3.33	1.01	17.8	2.68	2.95
10156	18F1	5.21 ††	3.29	10.1	3.03	5 ††	6.8 ††	12.2	3.9	1.11	13.6	3.02 ††	3.33
21083	18F1					3.1	0.71	17 ††	3.9	0.92	12	2.5	3
21100	18F1	3.86	3.09	10.1	3.49	2.76	0.473	14 †	3.91	0.465 ††	20.5	1.47 ††	0.04 ††
21178	18F1	3.7	2.9	10	3	2.9	0.7	14 †	3	1.1	19	3 ††	2.9
21229	18F1	3.79	3.09	10.3	3.21	2.72	0.78	12.6	3.02	1	12.6	2.41	2.9
21232	18F1	4.07	2.87	10.5	3.34	2.89	0.497	13.6	3.43	0.965	15.1	2.42	2.71
50005	18F1	3.92	2.89	10.4	3.27	2.9	0.861	11.7	3.22	1.07	17.5	2.53	2.87
50012	18F1	3.66	3.45	10.7	3.04	2.5	0.43	13	3	0.89	15	2.2	2.6
50014	18F1	3.7	3	10.2	3.44	2.41	0.515	12.7	3.04	0.9	18	2.52	2.85
50018	18F1	3.52	2.47	10.6	2.86	2.96	0.586	12.9	3.25	0.79	17.6	2.28	2.88
50020	18F1					2.64	0.44	12.5	3.13				
50024	18F1	3.72	2.88	10.4	3.11	2.02 ††	1.21 ††	10.5 ††	2.06 ††	1.26	17.3	2.41	2.86
50027	18F1	3.91	3.22	10.9	3.24	2.66	0.56	12.8	3.2	1.03	17.2	2.66	2.71
50038	18F1									0.95	11.1 ††	2.42	2.93
50042	18F1	0.18 ††	0.13 ††	0.9 ††	0.05 ††	0.02 ††	0.27	0.97 ††	0.11 ††				
52283	18F1	3.94	2.59	13.2 ††	3.51	3.15	0.605	12.7	3.59	0.951	17.9	2.4	2.69
52491	18F1	3.87	3.02	11.2	3.21								
52565	18F1	5.56 ††	3.65 †	15.3 ††	4.09 ††	2.87	0.614	12	3.3	0.989	14.6	2.52	3.2
52636	18F1	4.58 ††	2.53	12 ††	3.72	3.33 ††	0.66	14.4 ††	3.8	0.88	14.2	2.52	3.1
52847	18F1									3.78 ††	13.9	5.08 ††	5.37 ††
52874	18F1	3.4	2.1 †	8.7 ††	3.46	2.65	0.41	12	3.3	0.78	14.8	2.01	3.87 ††
52880	18F1									0.54 ††	15.6	2.14	2.23 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Aluminium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
11079	17B2					22500 †	50000	6460	24800				
20204	17C1	23100	16000	39800	3520	12700	46300	6150	15600	11800	3910	35600	21600
21083	17C1					8000	35000	4300	12000	8900 †	4200	21000 †	16000 †
21088	17C1	24300	18600	36100	2830	9370	36500	4020	13700	10800	3850	22100 †	17700
21100	17C1	24000	19000	39700	3280	7840	32400	3930	12100	12700	5250	30700	20500
21229	17B1	29300	23000	52500	4350	21500 †	57200	7280	23400	11400	5010	30900	21800
21230	17B2	47600 †	30700	10800 ††	7310 †	53600 ††	77000 ††	8800	33500 ††	17900 ††	8660	45900 ††	30400 ††
50005	17B2	25700	21500	51200	4310	11500	33400	4300	14600	10200	6190	22200	21400
50012	17C1	17000	12500	25000	2250	6130	26700	2590	9400	7640 ††	3100	15700 ††	12200 ††
50017	17B2	16100	32300	10900	6460 †								
50020	17B1					9830	40400	4420	15000				
50024	17C1	29100	25000	61800	4360	12200	48400	5960	17000	17700 ††	7950	41300	27500 ††
50036	17C1	13700	11800	17100	2020	5940	23000	2670	8900	6920 ††	3440	16100 ††	11600 ††
52386	17B1	2.69 †	2.28 ††	4.82	0.212 †	10500	42700	3880	14300	11500	3080	28800	18600
52491	17B1	25100	20200	50300	3260	14300	48700	5490	17800	12800	5830	32500	21300
52508	17B1					8160	25100	3670	10700				
52565	17B2	33100	28600	63300	5100	27800 ††	52300	7250	22100	12000	6060	34400	22700
52636	17B1	32600	26300	56100	4680	28100 ††	57300	7300	22900	12200	6130	32900	23200
52708	17C1	23600	22400	39400	3700	9700	41000	4100	13000	12600	5170	32000	22800
52874	17B1	48500 †	37900 †	14100 ††	7060 †								

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Arsenic (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10156	17B2	2.8	3.7	3.7	0.9	7.79 †	5.79	2.19	7.56	3.55	3.4	3.76	4.07
10173	17C1	2.29	2.99	2.94	0.57	5.66	3.59	1.39	5.99	2.79	2.46	2.43	3.11
11079	17C1	3.15	4.49	4.29	1.24 †								
11079	17B2					6.7	7	1.9	6.8				
20204	17C1	2.18	2.87	1.6	0.78	5.42	4.98	1.75	3.77	2.86	2.23	4.44	3.5
21083	17C1					5.5	4.8	1.2	5.3	3	2	2	4
21088	17C1	2.4	3	2.3	0.8	5.6	4.2	1.5	5.6	2.7	2.2	2.6	3.1
21100	17C1	2.59	3.58	3.06	0.58	5.81	5.93	1.45	6.01	3.47	2.98	4.32	4.18
21229	17B1	2.71	4.55	3.48	0.818	3.29 ††	3.21	0.97	4.4	2.67	2.1	2.39	3.62
21230	17B2	3.47	4.42	6.97 ††	1.42 †	6.15	6.5	1.08	7.83	3.91	4.07	5.11	4.41
50005	17B2	1.57	3.66	1.44	0.685	5.45	5.4	4.38 ††	5.27	3.02	3.83	2.03	3.53
50012	17C1	1.4	4.3	0.139	0.179 †	6.7	5.4	2.2	4.7	2.6	1.8	3.3	3
50020	17B1					10 ††							
50024	17C1	3.9	2.7	5	0.04 †	4.6	7.5	0.9	7.2	4.2 ††	2.5	5.5	4.8
50036	17C1					6							
52386	17B1	1.9	3.3	2	0.3	7	6	1	6	3	1	3	3
52491	17B1									1.11 ††	3.98	4.74	5.43 ††
52508	17B1					0.596 ††	0.668 ††	0.909	0.599 ††				
52565	17B2	1	3.8	1	1	4.11	6.72	1.4	6.95	2.9	2.9	4.63	3.5
52708	17C1	2.36	3.3	3.32	0.702	6.3	4.1	1.3	6.2	3.23	2.65	2.39	3.61
52874	17B1	0.01 ††	0.01 ††	0.01	0.01 †								

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Boron (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10156	17B2	4.5	22 †	9.9	2.8	16.4 ††	28 ††	4 †	14.8 ††	4.1 ††	4.8	13.1	22.6 ††
10173	17C1	1	12	4	2	1	8	2	3	1	3.5	5.5	13.1
11079	17C1	3.36	19.4	6.55	1.38								
11079	17B2					1.8	12	0.767 †	4.1				
20204	17C1					1.54	9.11	5.3 ††	5.74	1.12	4.35	8.46	12.6
21083	17C1					1	1	1	1	0.7	3	2	8
21088	17C1	1.5	10.8	2.2	1.4	1	5.3	1.7	1.8	0.6	3.1	2.9	10.2
21100	17C1	0.838	10.9	2.73	0.557	0.852	6.49	2.66	0.819	0.672	3.82	5.3	14.3
21229	17B1	0.507	4.47 †	0.412	2.23	0.47	11.5	1.77	4.34	1.32	4.02	2.74	12.3
21230	17B2		1.99 †										5.86
50005	17B2	2.44	10.6	3.93	1.92	1.42	9.29	2.33	5.1	1.48	3	5.94	11.6
50012	17C1	4.4	13	1.7	5.5 †	5.8 ††	7.1	8.6 ††	3.2	0.389	2.1	0.777	8.6
50017	17B2	10.1 ††	22.1 †	11.7 †	3.69								
50020	17B1					2							
50024	17C1	7.9 †	17.1	9.6	4	2.6	12.9	5.7 ††	6.3	0.1	1 ††	1.2	11.9
52386	17B1	1	13	4	1								
52491	17B1									54.3 ††	39.1 ††	116 ††	90.5 ††
52508	17B1					1.36	2.91	2.22	0.923				
52565	17B2	208 ††	105 ††	456 ††	21.4 †	8.02 ††	18.8	2.27	6.4	1.3	3.6	9.11	19.3
52636	17B1	189 ††	86.5 ††	368 ††	19.2 †	6.54 ††	17.3	2.12	7.49	1.75	2.8	10.4	17.9
52708	17C1	1.65	13.8	3.7	1.77	1.3	8.4	1.9	2.5	0.774	3.23	4.62	14.4
52874	17B1	167 ††	82.2 ††	296 ††	16.5 †								

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Calcium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10156	17B2	932	30900	1590	786	228 ††	21100	2190	750 ††	534	4120	6950	30800
10173	17C1	899	32900	1040 ††	796	103	14700 ††	2620	441	480	4680	6390	34600
11079	17C1	983	35900	1560	683								
11079	17B2					94	17900	1940	431				
20204	17C1					141 ††	18800	2740	467	517	4760	7190	31900
21083	17C1					110	23000 ††	2300	420	480	3800	6000	31000
21088	17C1	990	38000	1480	690	95	17400	2040	400	470	4300	6700	38600
21100	17C1	1040	33800	1760	713	74.5	18100	2330	420	613	5090	8200 †	39600
21229	17B1	1000	34400	1420	761	121	19400	2660	537	516	4570	6940	33400
21230	17B2	447 ††	18300 ††	747 ††	264 †	95.1	18500	1870	477	245 ††	1770 ††	3510 ††	19600 ††
50005	17B2	987	35800	1530	740	108	15400 †	1980	439	547	4230	6130	33100
50012	17C1	1110	37000	1820	784	188 ††	19500	2280	567	487	4410	6480	33500
50017	17B2	886	23700 ††	1480	619								
50020	17B1					103	22300 ††	2360	487				
50024	17C1	1060	34400	1680	792	97	19000	2340	479	668 ††	6700 ††	8350 †	41000 †
50027	17B2	1040	34600	1710	776	111	18100	2340	572	601	4580	7150	33100
50036	17C1	980	34200	1600	710	100	20500	1800	420	520	4630	7280	31900
52386	17B1	0.107 ††	3.59 ††	0.178 ††	0.037 †		1.76 ††	0.21 ††	0.04 ††	0.05 ††	0.23 ††	0.64 ††	2.97 ††
52491	17B1	1020	33300	1610	657	236 ††	19500	2350	512	544	5170	7520	35500
52508	17B1					142 ††	20400	2000	424				
52565	17B2	995	32800	1610	745	83.2	18500	2220	489	510	4060	6730	31000
52636	17B1	1040	32700	1660	673	83	18300	2150	509	465	3990	6410	30800
52708	17C1	920	29300 †	1510	680	110	17000	1900	440	525	4470	7050	352000 ††
52894	17A2									604	5970 ††	8850 ††	34500

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Cadmium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
10156	17B2	0.1 †	0.27	0.16	0.05	0.02	0.05	0.06	0.05	0.011	0.07	0.053	0.255
10173	17B1	0.067	0.253	0.127	0.03	0.019	0.036	0.069	0.052	0.012	0.0743	0.05	0.247
11079	17C1	0.237 †	0.255	0.384 ††	0.035								
11079	17B2					0.129 ††	0.489 ††	0.1	0.634 ††				
20204	17C1	0.69 †	0.24	1.45 ††	0.035	0.019	0.042	0.01	0.047	0.033 †	0.01 ††	0.615 ††	0.245
21083	17C1					0.03 †	0.08 †	0.07	0.1 †	0.04 †	0.09	0.09 ††	0.3 ††
21088	17C1	0.2 †	0.3 †	0.2 †	0.000 †	0.1 ††	0.1 †	0.09	0.1 †	0.06 ††	0.11 ††	0.12 ††	0.29 †
21100	17C1	0.0419	0.244	0.127	0.017	0.0061 †	0.008	0.0456	0.0285	0.0132	0.0775	0.0479	0.29 †
21229	17B1	0.0646	0.262	0.114	0.031	0.021	0.038	0.102	0.064	0.0116	0.0699	0.045	0.242
21230	17B2		0.206										0.207 †
50005	17B2	2.55 †	0.236	0.066 †	0.029	0.0207	0.023	0.105	0.0422	0.0345 †	0.151 ††	0.0563	0.239
50012	17C1	0.059	0.256	0.005 †	0.002 †	0.187 ††	0.733 ††	0.132	0.786 ††	0.04 †	0.0776	0.0441	0.282
50020	17B1					0.5 ††							
50024	17C1	0.176 †	0.234	0.322 ††	0.034	0.01 †	0.08 †	0.06	0.12 †	0.01	0.067	0.01 ††	0.166 ††
52386	17B1	0.06	0.25	0.12	0.02	0.02	0.03	0.06	0.03	0.02	0.05 †	0.05	0.25
52491	17B1									0.082 ††	0.132 ††		0.183 ††
52508	17B1					0.628 ††	1.94 ††	0.303 ††	4.36 ††				
52565	17B2	3.18 †	1.34 ††	6.91 ††	0.16 ††	0.733 ††	2.78 ††	0.298 ††	2.56 ††	0.08 ††	0.074	0.041	0.25
52708	17C1	0.06	0.236	0.124	0.031	0.016	0.033	0.059	0.046	0.011	0.081	0.049	0.262
52874	17B1	0.01 †	0.1 ††	0.01 †	0.01								

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Cobalt (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10156	17B2	14.6	6.65	141 †	1.52	6.63	17.5	1.89	22	5.05	2.34	15.9	5.75
10173	17C1	10.9	5.1	111	0.8	4.6	12.2 ††	1.8	18.2	4.07 †	2.13	14.1 †	5.1
11079	17C1	14.1	5.53	104	1.42								
11079	17B2					5.2	15	1.8	19				
20204	17C1	14.6	4.69	107	1.16	5.56	16.5	2.37	20.8	4.96	2.29	15	5.33
21083	17C1					6.4	18	1.7	21	4 ††	2	15	5
21088	17C1	13.3	5.4	110	0.8	5.7	17	1.5	20	5.1	2	16	4.9
21100	17C1	13.5	5.85	126	0.883	5.56	16.6	1.6	21.2	5.3	2.47	19.7 ††	6.63
21229	17B1	11.7	5.51	67.7 ††	1.27	5.2	16.4	1.67	18.7	4.88	2.3	16.7	5.95
21230	17B2	12.7	5.76	109	1.22	6.64	18	2.12	20.6	4.86	2.51	17	6.21
50005	17B2	14.4	4.62	79.5 †	1.17	5.71	15.2	1.92	20.6	4.8	2.35	14.6 †	5.59
50012	17C1	14	6	129	0.799	5.9	17	1.5	22	4.3	2	17	5.2
50020	17B1					5.32	17.7		22.8				
50024	17C1	14.4	6.2	115	1.28	5.5	15.4	2.3	21.6	5.8 ††	3.5 ††	18.5	6.1
50036	17C1	11	5	111		5	16		20	4 ††		17	5
52386	17B1	13.9	6.51	129	0.52	6.2	17.7	1.6	21.7	4.8	1.4 ††	16.5	5.4
52491	17B1									5.7 †	2.63	16.7	5.49
52508	17B1					1.08 ††	1.21 ††	1.62	1.52 ††				
52565	17B2	13.9	6.01	118	1.36	5.57	18.8	2.02	46.6 ††	6.02 ††	2.77	18	6.25
52708	17C1	10.8	5.11	90.1	0.765	5.3	14.3	1.6	19.6	4.69	2.1	16.3	6.09
52874	17B1	14.4	6.15	103	1.5								
52894	17A2									5.6 †		19 †	6.3

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Chromium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10156	17B2	20	26.4	289	104	31 ††	47.8	16.1	53.9	67.2 †	41.4	33.3	27.8
10173	17C1	13.6	19.2	260	112	8.1	28.5	7.4	39.5	57.2	26.4	16.3	19.8
11079	17C1	22.8	26.7	297	104								
11079	17B2					16	36	9	49				
20204	17C1	16.7	21.4	256	86.3	12.4	33.3	7.65	43.1	59.4	26.4	23.3	21.6
21083	17C1					11	34	7	45	57	29	16	20
21088	17C1	15.7	20.4	250	83.6	10	32	6.6	45	57	27	18	19
21100	17C1	17.6	22.6	299	97.1	8.55	30.9	5.15	42.9	72.8 ††	35.4	24.6	25.4
21229	17B1	15.8	21.8	243	98.7	15.7	39.5	10.5	42.4	58.4	32.5	24.2	22.7
21230	17B2	19.8	25.7	295	95	29.2 ††	49.6	15	56.9	68.6 †	44.9	34.5	28.3
50005	17B2	13.1	23.3	131 ††	91.2	12.5	36.2	13.3	48.9	63.3	47.2	19.6	21.9
50012	17C1	16	21	302	97	11	31	5.8	48	58	27	15	19
50020	17B1					12.5	38.1	8.27	51.2				
50024	17C1	17.6	24.2	252	98.7	12.3	35.6	11.4	46.2	80.3 ††	45.7	29.6	28.4
50036	17C1	13	17	220	78	8	27	4	41	48 ††	22	15	16
52386	17B1	18.6	25.8	315	46.8 ††	13	39	8	49	62	17	22	22
52491	17B1	19.5	23.2	260	83.7	12.9	36.2	8.01	43.5	58.3	36.9	23.2	20.8
52508	17B1					14.5	30.2	9.9	47.4				
52565	17B2	17.3	31.4 ††	312	95.7	16.2	41.1	12.1	46.6	69.5 ††	42.3	30.6	27.8
52708	17C1	14.1	19.6	238	76.9	9.4	30.2	5.6	39.6	57.2	26.5	22.7	23.1
52874	17B1	21.6	28.5	243	106								
52894	17A2									76 ††	44	33	28

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Copper (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10156	17B2	9.06	12.7	79.4	5.52	24.7	27.7 †	9.2	26.2	2.5	10.3	18.7	12
10173	17C1	7	12	40.1	4	20.8	20 ††	11 †	22.1	2	13.7	17.5	12.6
11079	17C1	9.49	14.3	89.2	5.52								
11079	17B2					22	24	9.1	24				
20204	17C1					21.1	26.3	11 †	23.7	2.43	11.8	19.3	13
21083	17C1					27 †	32 ††	17 ††	25	2	12	18	13
21088	17C1	9.2	14.1	67.6	3.8	25	29 ††	9.2	25	2.2	11	18	13
21100	17C1	9.57	13.5	70.2	4.05	22.4	24.7	9.13	23.7	2.92	14.4	23.4 ††	16.2 ††
21229	17B1	9.41	13.6	69.5	5.06	20.2	24.5	10.2	23.5	2.41	11.3	17.9	12.2
21230	17B2	6.4	11.1	70.9	4.26	23.6	25.1	8.48	22.5	13 ††	23.1 ††	34.4 ††	27.5 ††
50005	17B2	8.14	14.4	61	4.73	24	26	9.14	25	2.51	11.3	17.8	12.9
50012	17C1	7.1	13	65	3.5	23	25	8.7	22	2.1	12	17	15 †
50017	17B2	8.42	9.86	84.3	3.98								
50020	17B1					25.6	29 ††	8.78	28.4				
50024	17C1	10	14.2	71.5	4.53	22.2	25.8	10.6	24.9	3.5	18.1 ††	24.1 ††	16 ††
50027	17B2	5.4	13.6	86.4	5	24.4	25.5	9.5	23.9	1.7	11.9	20.2	13
50036	17C1	8	12	58		22	25	11 †	21		13	18	12
52386	17B1	10	14.7	76.3	2.4	28.6 ††	29.5 ††	11.9 ††	27.9	2.6	6.6 ††	20.2	13
52491	17B1	8.26	11.2	65.3	2.59	21.1	24.3	7.78	21.6	3.36	13.3	19.9	13.4
52508	17B1					24.1	21.9 †	11.5 ††	20.4				
52565	17B2	12	14	77.8	4.2	21.2	17.7 ††	9.21	15.9 ††	1.71	10.3	21.3 †	11.4 †
52636	17B1	0.55 ††	11	54.8	3.62	22.5	19 ††	8.67	17.2 ††	1.51	11.2	18	12.1
52708	17C1	7.37	11.2	49.9	3.66	20.4	20.1 ††	7.7	19.9	2.49	12.5	18.9	13.3
52874	17B1	8.5	13.5	77.9	3.3								
52894	17A2									3.5	17 ††	27 ††	15 †

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Iron (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10156	17B2	38600	15000	85600	4020	17800 ††	43300	4670	37000	10500	5860	22300	14900
10173	17C1	42400	14100	92700	4230	8370	32400	4480	33700	9780	7370	16500	15200
11079	17C1	52200 †	18800	10100 ††	5540 †								
11079	17B2					12600 †	37300	5070	37800				
20204	17C1					9930	39400	4140	31500	10900	7270	27400	16300
21083	17C1					11000	41000	4000	38000	9800	6100	15000	13000 †
21088	17C1	54700 †	17400	11500	4020	12000 †	33000	4010	35100	11800	6330	18600	16400
21100	17C1	48300	16600	10300	4250	9710	36600	4220	37100	12300	7560	23100	17600
21229	17B1	45600	17800	84300	4240	10400	34500	4750	30000 ††	11200	6370	24000	17000
21230	17B2	38700	15200	10100	2800 †	17400 ††	46800	5120	42300	8990	5460	25900	17100
50005	17B2	43100	18100	73700	4110	10300	33700	4800	33400	10700	7670	18800	16400
50012	17C1	46600	14100	10900	3970	9450	34400	3510	37000	10200	6030	15000	13200 †
50017	17B2	25900 †	16800	78100	4140								
50020	17B1					10600	41800	4250	40800				
50024	17C1	58300 †	21500	12000	5440 †	10000	38300	5000	36700	17000 ††	10600 ††	34300	23800 ††
50036	17C1	43700	13400	74000	3630	9850	35400	3000	36700	10900	6290	16600	13100 †
52386	17B1	5 †	1.87 ††	10.6 ††	0.243 †	1.02 ††	3.82 †	0.4 ††	3.65 ††	1.12 ††	0.43 ††	2.28 ††	1.59 ††
52491	17B1	44200	16300	92500	3900	9860	37200	4240	33900	13600	8880	27500	19100
52508	17B1					8520	33100	3710	35900				
52565	17B2	48800	20500	10800	4450	13300 ††	41800	4970	38300	10700	6790	24300	17400
52636	17B1	41700	17100	93000	4520	13400 ††	41800	4980	37400	9710	6570	22700	17100
52708	17C1	41600	15900	80800	3740	9400	34500	3500	35000	12000	7460	24200	18700
52874	17B1	57000 †	22600 ††	12700	5310 †								
52894	17A2									14000 †	8790	32300	19700

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Potassium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
10156	17B2	1590	5540	569	385 †	6040	4160	989 ††	5370 ††	1960 ††	1840	3590	6590
10173	17C1	199	4240	160	260	1100	1290	598	1640	1360	1610	1980	4840
11079	17C1	2570 ††	7940 ††	877	487 †								
11079	17B2					2810	2570	497	3260				
20204	17C1					2430	2680	520	2030	1470	1250	2520	5450
21083	17C1					1100	1600	500	1800	1300	1200	1400	3600
21088	17C1	280	4490	330	210	1100	1560	510	1550	1370	1380	1870	3930
21100	17C1	317	4790	310	239	1620	1750	619	2130	1770	1710	2320	5160
21229	17B1	621	5680	375	281	2460	2980	803	2940	1530	1570	2800	5540
21230	17B2	1480	5670	702	167 †	4960	4100	855	4570 ††	1330	1180	3510	6590
50005	17B2	780	5140	454	231	2490	2480	323	2160	1530	1440	3090	5530
50012	17C1	167	3260 ††	190	183	931	1120	404	1210	1240	1270	1310	3420
50017	17B2	1760	6700	798	271								
50020	17B1					1620	1840	595	2180				
50024	17C1	491	5710	457	259	1630	2280	673	2290	1790	2010	3070	6280
50027	17B2	1690	7350	805	368 †	4250	4060	842	4470 ††	1800	1860	3660	7290
50036	17C1	190	3560 †	290	240	1120	1480	500	1600	1380	1410	1530	3490
52386	17B1	0.036	0.557 ††	0.039	0.014 †	1370	1980	521	1980	1420	813 ††	2210	4600
52491	17B1	539	5540	416	243	2560	2610	687	2760	1530	1690	2630	5310
52508	17B1					1280	1300	444	1450				
52565	17B2	969	6120	579	300	3530	3220	768	3030	1500	1540	2960	5780
52636	17B1	812	5860	584	283	3610	3040	742	3020	1460	1530	2800	5700
52708	17C1	277	5020	298	249	1400	2000	510	1900	1550	1600	2610	5380
52894	17A2									2710 ††	2190 ††	3790	5270

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Magnesium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10156	17B2	679	4610	674	333	5380 ††	7590	867	2280	1590	1200	5200	5080
10173	17C1	421	4310	348 †	296	2700	4500	800	1200	1440	1310	4210 †	4480
11079	17C1	998 †	5010	998 †	401 †								
11079	17B2					3390	5360	731	1730				
20204	17C1					3390	5990	900	1900	1510	1210	5350	4850
21083	17C1					3500	5500	750	1300	1400	1100	3400 ††	4000
21088	17C1	470	4730	470	250	2560	5290	610	1200	1400	1130	3800 ††	4120
21100	17C1	566	5150	665	292	2930	5210	717	1290	1850	1440	5260	5490
21229	17B1	597	5250	523	319	3510	6460	977 †	1840	1560	1290	5200	5110
21230	17B2	635	4430	710	202 †	4150	6490	636	1740	903 ††	712 ††	4320 †	4280
50005	17B2	569	5970	588	315	3320	5560	609	1310	1560	1270	4860	4920
50012	17C1	499	4360	622	285	2940	5030	683	1330	1430	1140	3240 ††	3970
50017	17B2	675	4170	729	266								
50020	17B1					3570	6420	766	1530				
50024	17C1	553	5230	667	294	3070	6110	782	1480	1830	1580 †	6000 †	6040
50027	17B2	973 †	5800	1160 ††	384 †	4220	6450	781	2050	1690	1420	5680	5600
50036	17C1	400	3780	460	240	2960	4710	570	1190	1410	1090	3310 ††	3610 †
52386	17B1	0.057 †	0.525 ††	0.064 ††	0.016 †	2440	1220 †	226 ††	144 ††	0.15 ††	0.08 ††	0.47 ††	0.47 ††
52491	17B1	596	5280	652	299	3250	6010	762	1510	1600	1340	5150	5080
52508	17B1					2520	4210 †	580	1090				
52565	17B2	756	5880	816	329	3820	6230	794	1720	1580	1260	5290	5270
52636	17B1	784	5410	903	318	3910	6180	752	1680	1480	1240	5100	5110
52708	17C1	474	4770	525	280	3100	5700	590	1300	1600	1250	4920	5350
52894	17A2									1550	1330	6280 ††	5610

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Manganese (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
10156	17B2	693	286	6070	78.9 †	29.2 ††	885	56.8	825 ††	135	61	840	269
10173	17C1	705	279	5900	69	24 ††	708	49	646	125	63.8	1050	271
11079	17C1	774	299	4320 ††	104 ††								
11079	17B2					20	706	49	649				
20204	17C1					18.1	749	55.4	672	146	74.2	1020	258
21083	17C1					19	840	47	710	130	57	810	260
21088	17C1	710	270	7670	59 ††	17	790	40	670	130	60	880	260
21100	17C1	778	318	6590	71.8	17.6	717	45.3	675	158	74.1	1050	323
21229	17B1	800	271	6200	71.7	18.3	812	55.1	733	140	67.3	1050	269
21230	17B2	668	259	5740	69.5	22.4 †	862	61	695	143	72.3	994	291
50005	17B2	743	316	5500	67.1	17.1	633	56.5	658	141	71.1	937	286
50012	17C1	786	310	7370	70	24 ††	783	44	725	131	58	913	273
50017	17B2	671	179 ††	5880	64.6								
50020	17B1					19.3	901	45.9	753				
50024	17C1	656	259	5680	71	15.5	728	50.9	676	176 ††	90.4	1070	326
50027	17B2	751	306	5630	85.9 ††	22.7 †	785	66	705	165 ††	85.7	948	306
50036	17C1	757	288	6530	64		797	30 ††	659	141	56	968	236
52386	17B1	765	328	6590	39 ††	18	827	46	679	137	36 ††	921	267
52491	17B1	759	306	6610	69.9	14.4	800	49	707	151	105 ††	1040	309
52508	17B1					14.1 †	748	35.1	643				
52565	17B2	872	333	6540	81.9 ††	17.9	841	52.5	740	136	66.4	948	286
52636	17B1	727	267	5710	66.8	18.8	870	53.3	778 †	129	67.8	969	275
52708	17C1	577 †	237	5260	58.7 ††	15.9	730	38.2	690	136	60.3	949	290
52874	17B1	850	349	7910 ††	72								

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Molybdenum (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	ASS 2203-2	ASS 2203-3	ASS 2203-4	ASS 2206-1	ASS 2206-2	ASS 2206-3	ASS 2206-4	ASS 2209-1	ASS 2209-2	ASS 2209-3	ASS 2209-4
10156	17B2					0.05	0.05	0.13 †	0.19	0.58 ††	1.47	0.05	0.25
10173	17C1	0.85	0.34	1.2	1.93	0.2	0.22	0.23	0.63	1.48 ††	1.53	0.28	0.353
11079	17C1	0.96	0.339	1.55	3.29								
11079	17B2					0.46	0.124	0.286	0.494				
20204	17C1	0.92	0.41	1.31	2.82	0.338	0.146	0.005 ††	0.1	2.1	2.25	0.289	0.402
21083	17C1					0.48	0.25	0.32	0.75	2	2	0.2	0.2 †
21088	17C1	0.7	0.25	1.3	2.7	0.4	0.2	0.3	0.7	2.2	2.1	0.28	0.38
21100	17C1	0.831	0.367	2.31 ††	2.85	0.437	0.313	0.258	0.7	2.58 †	2.43	0.441	0.543
21229	17B1	0.591 †	0.484	0.309 ††	3.06	0.0503	0.165	0.293	0.305	2.08	2.44	0.0264	0.416
21230	17B2	0.613		1.06	1.72								
50005	17B2	0.81	0.44	0.354 ††	2.69	0.312	0.2	0.826 ††	0.939	2.01	10.9 ††	0.122	0.365
50012	17C1	0.873	0.609	2.3 ††	3.3	0.539	0.11	0.178	0.437	2.3	2	0.298	0.429
50020	17B1						2.5 ††						
50024	17C1	0.77	0.22	1.12	3.53	0.23	0.01	0.32	0.26	1.73	2.66	0.05	0.11 ††
50036	17C1				2								
52386	17B1	1.14 †	0.42	2.64 ††	1.57	0.7	0.4	0.3	0.9	2.7 ††	1.3	0.4	0.5
52491	17B1									2.22	3.54 †	0.312	0.938 ††
52508	17B1					0.837	0.646 ††	0.909 ††	0.558				
52565	17B2					0.714	0.274	0.445 †	0.803	2.15	2.25	0.484	0.555
52708	17C1	0.811	0.387	1.16	2.45	0.185	0.234	0.212	0.632	1.95	1.84	0.303	0.431
52874	17B1	2.28 †	1.8 ††	4.4 ††	1.3								
52894	17A2									3.1 ††	2.8	2 ††	1.2 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Sodium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10156	17B2	87.3	137	232	45	3160	507	302	168 ††	118	408	992	131
10173	17C1	41	85.3	55.2	29.9	2390	211	254	54.2	81.1	428	887	86.1
11079	17C1	114	124	406 ††	41.5								
11079	17B2					2630	463	214	106				
20204	17C1					2420	355	245	100	108	352	807	111
21083	17C1					3200	380	270	71	91	390	1000	120
21088	17C1	70	136	137	31	2300	420	280	80	104	450	1120	140
21100	17C1	55.9	104	131	17.3	3100	352	315	104	116	457	1180	105
21229	17B1	97.3	134	201	43.4	2590	501	378	229 ††	99	470	1120	122
21230	17B2	64.2	110	196	17.5	2830	648 †	293	219 ††	86.5	262 ††	908	141
50005	17B2	73.3	143	217	32.3	2620	631	211	72.8	97.6	389	1000	116
50012	17C1	13	143	1.14 ††	24	2370	289	209	35	85	432	1070	139
50017	17B2	83.2	83.2	238	20.7								
50020	17B1					2930	310	240	59.7				
50024	17C1	87.4	113	180	23.6	2750	382	301	79	104	562 ††	1210	116
50036	17C1	50	110	80		2900	350	250	70	90	440	1140	80
52386	17B1	0.006 ††	0.011 ††	0.015 ††	0.001 ††		0.27 †	0.03 ††	0.03 †		216 ††	944	
52491	17B1	60.4	108	173	26.7	2860	395	280	88.3	96.7	468	1120	111
52508	17B1					2430	310	313	126				
52565	17B2	68.2	124	192	33	2510	375	239	75.1	94.4	410	1060	128
52636	17B1	70.5	114	201	27.4	2570	409	255	107	101	392	940	117
52708	17C1	39.9	73.7	92.9	22.8	2700	290	220	56	58.9 ††	380	959	126

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Lead (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10156	17B2	11.4	13.3	12.5	9.57 †	16 ††	14.3 ††	25	18.3	7.6	23.6	12.9 †	14.7 ††
10173	17C1	9.7	12.7	10.3	8	11.9	10.2	24	15.3	6.25	23.9	11.3	12.7
11079	17C1	10	11.6	11	8.11								
11079	17B2					11	9.5	22	14				
20204	17C1	9.43	10.4	10.5	6.9	10.3	9.34	26.4	14.8	6.35	19	10.4	11.6
21083	17C1					14 ††	13	26	17	5	23	10	12
21088	17C1	5.5 ††	10.8	1.6 ††	6.6	12	12	24	17	4.9	20.4	9.6	10.4
21100	17C1	10.1	13.1	11.3	7.59	11.4	10.6	22.9	16.1	6.98	25	12.8	14.3
21229	17B1	10.5	14.9	10.9	7.59	11.9	11.3	25.1	14.3	5.45	20.8	10	12.8
21230	17B2	10.5	11.7	10.9	7.5	13.6 ††	8.74	25.5	12.8	6.2	19.9	11.1	12.1
50005	17B2	1.41 ††	6.42 ††	5.35 ††	7.53	11.5	10.7	26.4	12.5	6.44	31.1 †	8.82 †	12.8
50012	17C1	9.9	14	14	7.5	11	11	23	16	5.3	23	11	12
50020	17B1					10.5	7.92	24.8	15.8				
50024	17C1	12.8	14.3	14.9	8.14	13.5 †	12.5	29.3 ††	17.8	8.6	27.7	15.4 ††	15.6 ††
50036	17C1	5 ††	10	6 ††	6 †	10	6 ††	19 ††	13		24	9	10
52386	17B1	10.6	13.6	11.7	4 ††	12.1	10.9	22.6	15.5	6.7	12 ††	10.9	12.2
52491	17B1									3.47	40.2 ††	6.88 ††	9.28 ††
52508	17B1					9.83	3.88 ††	22.3	9.44 ††				
52565	17B2	11.3	12.3	14.5	13 ††	11.6	8.52	23.5	16.4	4.05	24.8	10.5	11.8
52708	17C1	8.84	11.7	10.2	7.35	11	10.2	19.9	15.2	6.14	23	11.3	13.4
52874	17B1	10.2	12	7.5	7.6								
52894	17A2									5.4	25	11	12

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Sulphur (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10173	17C1	406	471 ††	370	165	1	244 †	177	105	65.5	791	332 ††	345 ††
11079	17C1	367	254	344	250								
11079	17B2					21	147	224	91				
20204	17C1					33.7	140	219	83	54.5	789	261	238
21083	17C1					21	160	240	93	50	630	170	220
21088	17C1	335	215	276	213	25	130	200	85	54	670	180	220
21100	17C1	311	180	219	174	350 ††	499 †	242	512 ††	54.4	644	169	233
21229	17B1	330	227	220	245	29	147	249	104	52.4	750	179	224
21230	17B2	295	198	261	199	46.9	148	232	100	68.5	651	204	227
50005	17B2	333	243	311	255	30.5	127	231	94.9	54.3	674	173	220
50012	17C1	386	267	302	257	23	138	226	94	49	704	169	223
50017	17B2	341	211	367	234								
50020	17B1						120	204					
50024	17C1	255	10 ††	139	221					63	998 ††	216	249
50036	17C1	320	220	250	220		140	190	80		460 ††	140	180 ††
52386	17B1	0.04 ††	0.02 ††	0.03 ††	0.01 ††								
52491	17B1					66.2	131	277	124	95.5 ††	798	199	178 ††
52508	17B1					15	192 †	478 ††	269 ††				
52565	17B2	425	370 †	469	261	68.5	234 †	237	136	72.2	729	236	286 ††
52636	17B1	430	286	445	224	66.6	232 †	223	133	76.3	746	246	297 ††

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Selenium (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10156	17B2	2.2		3.6						0.97 ††	0.72	1.49	1.03
11079	17C1			0.661									
20204	17C1	0.26	0.46	0.125	0.36	0.41	1.52	1.24	0.881	0.189	0.463	1	0.37
21083	17C1					0.077	0.13	0.08	0.2	0.2	0.2	0.1	0.1
21088	17C1	0.8	0.1	2	0.3	0.1	0.3	0.3	0.2	0.11	0.16	0.77	0.26
21100	17C1	1.35	0.44	0.57	0.01	0.3	1.17	0.532	0.502	0.0924	0.108	0.0506	0.0446
21229	17B1	1.13	0.312	0.771	0.263	0.307	0.499	0.23	0.643	0.294	0.324	0.451	0.366
21230	17B2					3.04 ††	3.03	0.605	2.54				
50005	17B2	0.662	0.39	0.935	0.377	0.385	0.897	0.821	1.04	0.165	0.403	0.496	0.393
50012	17C1									0.214	0.145	0.208	0.168
50020	17B1								20 ††				
52386	17B1	0.7	0.1	0.2	0.05								
52508	17B1					0.314	1.19	0.808	0.294				
52565	17B2					2.27 ††	2.44	0.825	1.67	0.8 ††	0.725	1.99	1.03
52708	17C1	1.71	0.671	3.25	0.217	1.1 †	1.33	0.395	1.03	0.494	0.275	0.864	0.556
52874	17B1	6 ††	2.3 ††	10 ††	0.6								

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Silicon (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
20204	17C1					974	802	745	764	657	673	921	843
21083	17C1					60	110	57	60	520	450	1200	1500
21088	17C1	1150 ††	1310	1070	703	1040	1100	750	920	690	720	770	850
21100	17C1	1210 ††	1560	1510 ††	831	2590	2170	2780 ††	2840 ††	1540	1050	2180	1710
50005	17B2	566	1060	646	587	850	706	540	821	611	488	1220	979
50012	17C1	400	250	400	390	310	240	180	180	270	310	280	280
50020	17B1					588	764	460	660				
50024	17C1	640	616	764	491	1280	1270	880	1140	1480	1000	2540	2200
50036	17C1	20 †	40	23	4 †								
52508	17B1					256							
52565	17B2	558	1380	514	505	277	197	313	217	410	430	330	370
52636	17B1	505	870	597	449	257	202	324	192	390	421	315	359

Lab. Code #	Method Codes	Soil sample identification and values for 2022: Aqua Regia Zinc (17A2 + 17B1 + 17B2 + 17C1) mg/kg – Not Certified											
		March 2022 (Round 3)				*June 2022 (Round 6)*				*September 2022 (Round 9)*			
		ASS 2203-1	**ASS 2203-2**	**ASS 2203-3**	**ASS 2203-4**	**ASS 2206-1**	**ASS 2206-2**	**ASS 2206-3**	**ASS 2206-4**	**ASS 2209-1**	**ASS 2209-2**	**ASS 2209-3**	**ASS 2209-4**
10156	17B2	71.6	34.8	234	11.2 †	86.3 ††	75.1 ††	34.5	57.7 ††	14.6	34.9	59.9	33.9
10173	17C1	51	26.1	101	9	46.6	30.1	36	38.2	11	44.7	44	27.6
11079	17C1	75.6	29.7	198	10.5 †								
11079	17B2					54	47	30	45				
20204	17C1					51	41.5	29.5	37.4	12.1	35.2	50.7	28.5
21083	17C1					54	33	30	34	9	33	33	21 †
21088	17C1	62.4	32.3	167	8.1	43	37	26	36	10.5	33	37	24
21100	17C1	63.2	31.6	166	7.1	44.1	32.1	23.5	33.3	12.4	43	52	30.3
21229	17B1	65.6	28.5	152	7.65	57.1	49	35.6	46.7	12.1	40.3	52.7	29.3
21230	17B2	65.1	28.3	200	8.18	65.6	50.7	28.6	43.8	17.3 ††	39	61.7	35.5
50005	17B2	65.9	33.1	185	7.73	53.5	44.9	26.9	40.7	13.5	36.9	52.3	30.2
50012	17C1	57	25	158	7.5	53	33	31	37	9.7	35	33	22
50017	17B2	67	29.6	219	7.95								
50020	17B1					54.3	38.1	28.3	40.1				
50024	17C1	63.4	31	168	8.2	51.1	43.6	32.6	41.6	14.8	48.5 ††	57.5	32.4
50027	17B2	77.3	34.2	236	9.2	62	52.8	27.7	45.3	14.8	40.9	58.6	33.3
50036	17C1	43 ††	20 ††	112	6	45	24 †	24	31	10	38	34	19 ††
52386	17B1	65.7	32.8	180	4.6 †	55	46	29	42	12	21 ††	49	28
52491	17B1	59.6	27.5	162	6.75	47	39.9	25.3	35.6	11.2	37.3	47.3	25.6
52508	17B1					41.6	26.4	25.7	34.8				
52565	17B2	74.6	39.6	199	7.07	61.1	46.1	31.3	42.7	11.8	37.1	59.5	31.9
52636	17B1	74.6	33.3	199	7.07	61.3	46.9	30.2	43.3	11.4	36.2	50.2	31
52708	17C1	51	27.1	125	6.79	50	35.9	25.7	35.5	12.2	40.1	49.6	29.3
52874	17B1	70	31	182	7.5								
52894	17A2									15	43	56	30

[i] Unless otherwise indicated, soil method codes are as defined by Rayment, G.E. and Lyons, D.J. (2011). *Soil Chemical Methods - Australasia*. CSIRO Publishing, Collingwood, Victoria, Australia.

[ii] These are ASPAC endorsed tests, where "O" in the code refers to Olsen extractable P, and "C" refers to Colwell extractable P. See the table Notes for more details.