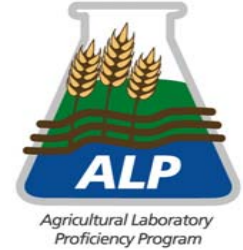


ALP Program

Participant Web Summary Report

2006 Demonstration Round



The Agriculture Laboratory Proficiency (ALP) Program is operated by Collaborative Testing Services, Inc. in cooperation with Robert O. Miller, PhD, Program Technical Director

ALP Program - Demonstration Round Overview

The Agriculture Laboratory Proficiency (ALP) Program 2006 Demonstration round was completed December 15, 2006, and had twenty labs enrolled from the United States and Canada. The provided proficiency samples consisted of five soils, three botanical and three water samples. Analytical methods evaluated are based on those published by regional work groups and the Soil and Plant Analysis Council.

Standard Reference Soils (SRS), materials were collected from the states of Nebraska, Washington, Illinois, Idaho and Minnesota representing soil textures ranging from loamy sand to clay. Standard Reference Botanical (SRB) materials represented sugarbeet, citrus and grape blades. Standard Reference Water (SRW) solution materials represent agriculture water sources collected in Colorado.

Laboratory Results were compiled and analyzed for each interlaboratory material and property. All analyses in the ALP Program are based on consensus and comparative statistics. Although the analysis techniques chosen to provide a robust evaluation, small group statistics are less reliable than large group statistics. No comparative results are provided for analyses with fewer than 5 reported results.



Special Topics:

Discussion of Statistics in ALP Reports from the demonstration Round.

Quick Key to Analysis Tables.

Means and medians / standard deviations and M.A.D.s

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Discussion of Statistics in ALP Reports

Reports in the ALP Program contain a variety of statistical terms and measures, such as: mean, median, median absolute deviation (M.A.D.), average standard deviation, z-score, etc. that must be understood to accurately interpret your laboratory's results. The following sections describe the statistics used in the Participant Web Summary Report and the Individual Performance Analysis Report.

Laboratory Statistics:

For each property three replicate determinations were collected for each sample. From these determinations, we calculated your laboratory results as the arithmetic mean and standard deviation of the three determinations. These results form the basis for all other statistics used in the reports.

$$\text{Arithmetic Mean} \quad \bar{x} = \frac{1}{n} \cdot \sum_{i=1}^n x_i \quad \text{Standard Deviation} \quad \sigma = \sqrt{\frac{1}{N} \sum_{i=1}^N (x_i - \bar{x})^2}$$

Consensus Statistics:

From the laboratory means a Grand Median is determined. The dispersion around this consensus value is calculated by the Median Absolute Deviation (M.A.D.). The M.A.D. is the median of the absolute values of the differences between the Laboratory Means and the Grand Median. Finally, the standard deviations between the triplicate determinations for each sample-property within each lab are averaged (by the sum of squares method) to determine the Within Lab Average Standard Deviation. These three consensus values, Grand Median, M.A.D. and Within Lab Avg STD form the basic estimates of value, dispersion, and within laboratory consistency.

$$MAD = \text{med}_i (|x_i - \text{med}_j (x_j)|)$$

Please note that the calculation of the M.A.D. as detailed above differs from conventional usage.

continued on the following page



Discussion of Statistics in ALP Reports

Performance Statistics:

Performance Statistics are generated by combinations of the two Laboratory Statistics (arithmetic mean and standard deviation) and the Consensus Statistics (Grand Median, M.A.D. and Within Lab Avg STD).

The Individual Performance Analysis Report, contains two Performance Statistics and an associated range. The WithinLab Performance is the laboratory standard deviation divided by the Within Lab Average Standard Deviation. A value greater than 1 for this ratio would indicate that the variation of the three replicate determinations for this sample-property from your laboratory was greater than the other participants; a ratio less than 1 indicates less variation than other participants. The Laboratory-Sample Bias results on the Laboratory Summary Performance page are z-scores calculated by dividing the difference between your laboratory mean and the Grand Median by the M.A.D. A value closer to zero for this performance statistic indicates that your laboratory mean agreed with the other participants. Positive values indicate that your laboratory mean was greater than the Grand Median; negative values indicate that your laboratory mean was less than the Grand Median. The larger this value is, whether positive or negative, the less agreement between your laboratory mean and the Grand Median. The confidence interval is calculated from the Grand Median and the M.A.D.

$$\text{WithinLab Performance} = \frac{\text{laboratory standard deviation}}{\text{Within Lab Average Standard Deviation}}$$

$$\text{Laboratory-Sample Bias} = \frac{(\text{laboratory mean} - \text{Grand Median})}{\text{M.A.D.}}$$

In the Participant Web Summary Report the k Score is the same as the WithinLab Performance; it is simply a common technical term. The Z Score does differ from the Laboratory-Sample Bias, however these two performance measures share the same purpose - to judge the bias between your laboratory mean and the consensus results. The Z Score is calculated by dividing the difference between your laboratory mean and the Grand Median by the product of the M.A.D. and a factor of 1.48 (rounded). This denominator is used to give a rough estimate of the between laboratory standard deviation, if a normal distribution is assumed. The Z Score then gives us something that approximates a traditional z-score, so that on average 68% of values fall in the range of +1.00 to -1.00.

$$\text{k Score} = \frac{\text{laboratory standard deviation}}{\text{Within Lab Average Standard Deviation}}$$

$$\text{Z Score} = \frac{(\text{laboratory mean} - \text{Grand Median})}{1.48(\text{M.A.D.})}$$



Key to Data Tables

Laboratory Results

Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	arithmetic mean of the three determinations for the sample-property
			Difference	difference between your laboratory mean and the Grand Median
			Z Score	difference divided by the product of the M.A.D. and 1.48 (rounded)
			W/L STD	standard deviation of the three determinations for the sample-property
			k Score	laboratory standard deviation divided by the Within Lab Average STD

Consensus Results

Grand Median	median of all included sample means
Median Abs Dev	median of all included absolute differences between the sample means and the grand median
Avg Within Lab SD	average of all included laboratory standard deviations
Labs Included	number of laboratories included in calculation of consensus statistics for this sample-property
Labs Reporting	number of laboratories submitting data for this sample-property

Consensus results were reported only for analyses with five or more included laboratories. Analyses with fewer than five included laboratories are missing both consensus and performance statistics.



Choosing the Statistics Used

In this report and the Individual Performance Analysis Report, ALP participants should note that CTS has used means and medians to calculate averages, as well as standard deviations and Median Absolute Deviation (M.A.D.) to estimate dispersion about these averages. The use of multiple averages and multiple measures of dispersion has the potential to lead to confusion. This note is intended to explain the rationale behind the choice of statistics used. **As a guideline, we have chosen means and standard deviations to describe within laboratory measures and the median and M.A.D. to describe between laboratory measures.**

Why did we decide this?

This decision is based upon the assumption that within each laboratory there measurement process is "in-control." If one of the triplicate determinations was very different from the other results, it would likely be discarded as an outlier and the sample tested again. Additionally, laboratories use training, maintenance, calibration and check samples to produce reliable results based on a historical perspective. Because of these two factors, absence of outliers and relative consistency, the assumption is made that the results will be normally distributed. Although in reality this is often not true, it is the conventional practice. Mean and standard deviations provide good estimates of value and dispersion in this case.

On the other hand, we have not made this same "in-control" assumption about the between laboratory comparisons. As a result, we have chosen more robust estimators of value and dispersion. In many cases, the median will be less affected by outliers than the mean when dealing with a small number of measurements. Similarly, the average difference and the M.A.D. will often yield more accurate estimates of dispersion than the standard deviation when dealing with a "flawed sample." Here the term flawed sample refers to a group of measurements that differs from the idealized normal distribution. Moreover, the M.A.D. will also make the dispersion estimate less susceptible to outliers than the use of standard deviations. Unlike the M.A.D., a standard deviation emphasizes larger deviations by the squaring of the difference.



The choice of statistics used is not the only choice that may be made, nor were the presented statistics the only ones calculated for the Demonstration Round. CTS, in conjunction with Dr. Miller, chose the measures used in the report based on the utility the measures provide to the participants. We will continue to evaluate our statistical choices and make changes to provide the best tools for evaluating your laboratory's measurement performance. However we will balance this need with our ongoing commitment to simplicity of interpretation.



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Saturated Paste Moisture (101) in the Salinity Property Group															
	Data units: Percent														
6276	25.34	0.67	1.39	36.61	0.23	0.96	34.63	-0.14	0.44	57.65	0.10	0.48	32.25	-0.16	0.34
		1.97	1.29		1.26	1.34		-0.80	0.76		1.16	0.93		-0.74	0.31
6283	21.63	-0.59	1.04	38.43	0.56	1.17	36.07	0.11	0.63	65.07	0.74	0.48	30.00	-0.67	0.22
		-1.73	0.96		3.08	1.63		0.64	1.10		8.58	0.93		-2.99	0.20
6291	27.23	1.31	0.90	45.73	1.89	0.54	43.30	1.34	0.90	69.60	1.13	1.99	33.73	0.16	2.08
		3.87	0.84		10.38	0.76		7.87	1.56		13.11	3.82		0.74	1.89
6306	22.33	-0.35	1.65	33.67	-0.31	1.50	32.33	-0.53	2.33	55.33	-0.10	0.79	27.67	-1.18	1.27
		-1.03	1.53		-1.69	2.08		-3.10	4.04		-1.16	1.53		-5.33	1.15
6327	26.23	0.97	0.44	43.97	1.57	1.12	41.43	1.02	0.48	69.87	1.15	1.48	34.21	0.27	0.59
		2.87	0.40		8.61	1.55		6.00	0.83		13.38	2.84		1.21	0.54
6330	24.40	0.35		34.10	-0.23		46.50	1.89		36.00	-1.77		42.40	2.09	
		1.03			-1.26			11.07			-20.49			9.41	
6334	21.87	-0.51	0.73	33.42	-0.35	1.17	34.79	-0.11	0.41	55.15	-0.12	0.70	34.30	0.29	1.04
		-1.50	0.68		-1.94	1.63		-0.64	0.71		-1.34	1.34		1.30	0.94
6335	21.40	-0.66	0.86	33.90	-0.26	0.75	33.87	-0.27	0.89	53.10	-0.29	0.54	30.43	-0.57	0.67
		-1.97	0.79		-1.46	1.04		-1.56	1.55		-3.39	1.04		-2.56	0.60
Grand Median		23.37			35.36			35.43			56.49			32.99	
Median Abs Dev		2.00			3.71			3.96			7.82			3.04	
Avg Within Lab SD		0.93			1.39			1.74			1.92			0.91	
Labs Included		8			8			8			8			8	
Labs Reporting		8			8			8			8			8	

	pH - sp (102)			in the Salinity Property Group									Data units: Unit		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
6283	5.34	0.16	1.34	5.92	-0.22	0.80	6.74	-0.75	1.29	7.38	-0.68	0.88	7.74	-0.30	0.32
		0.03	0.09		-0.02	0.04		-0.11	0.08		-0.08	0.04		-0.07	0.03
6291	5.87	2.76	0.60	5.87	-0.76	1.65	6.75	-0.65	0.87	7.39	-0.62	1.64	7.76	-0.19	1.02
		0.56	0.04		-0.07	0.08		-0.09	0.06		-0.08	0.07		-0.04	0.09
6306	5.27	-0.21	0.91	6.00	0.68		6.93	0.61	0.91	7.50	0.27		8.00	0.86	
		-0.04	0.06		0.06			0.09	0.06		0.03			0.19	
6327	5.35	0.18	1.78	5.99	0.54	1.21	6.85	0.00	1.67	7.45	-0.16	0.38	7.81	0.00	2.31
		0.04	0.11		0.05	0.06		0.00	0.11		-0.02	0.02		0.00	0.19



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6330	5.30	-0.05		6.00	0.68		6.92	0.51		7.71	1.98		8.21	1.79	
		-0.01			0.06			0.07			0.24			0.40	
6334	5.31	0.00	0.16	5.94	0.00	0.94	6.88	0.23	0.32	7.59	1.00	1.15	7.92	0.52	0.18
		0.00	0.01		0.00	0.05		0.03	0.02		0.12	0.05		0.12	0.02
6335	5.03	-1.36	0.91	5.77	-1.84	1.14	6.57	-1.96	0.91	7.47	0.00	1.44	7.57	-1.07	0.69
		-0.28	0.06		-0.17	0.06		-0.28	0.06		0.00	0.06		-0.24	0.06
Grand Median		5.31		5.94			6.85			7.47			7.81		
Median Abs Dev		0.14		0.06			0.10			0.08			0.15		
Avg Within Lab SD		0.06		0.05			0.06			0.04			0.08		
Labs Included		7		7			7			7			7		
Labs Reporting		7		7			7			7			7		

ECe - sp (103)			in the Salinity Property Group												Data units: dS/m		
6276	0.70	0.01	1.30	0.93	0.03	1.16	0.53	0.47	0.59	0.72	-0.04	0.17	0.32	0.11	0.04		
		0.00	0.06		0.00	0.09		0.05	0.02		-0.01	0.02		0.01	0.00		
6283	0.71	0.10	0.92	0.70	-1.56	0.79	0.45	-0.42	0.16	0.56	-0.58	0.06	0.43	1.18	0.27		
		0.01	0.04		-0.23	0.06		-0.04	0.01		-0.18	0.01		0.12	0.02		
6291	0.47	-2.50	0.24	0.95	0.16	1.88	0.23	-2.65	0.62	1.68	3.04	2.17	0.18	-1.31	0.36		
		-0.23	0.01		0.02	0.15		-0.25	0.02		0.94	0.20		-0.13	0.02		
6306	0.69	-0.12	1.06	1.01	0.62	1.14	0.52	0.35	1.24	0.87	0.44	1.69	0.48	1.68	2.72		
		-0.01	0.05		0.09	0.09		0.03	0.05		0.14	0.16		0.17	0.18		
6327	0.70	-0.01	1.94	0.83	-0.65	0.56	0.51	0.28	2.33	0.68	-0.17	0.55	0.32	0.07	0.39		
		0.00	0.09		-0.09	0.05		0.03	0.09		-0.05	0.05		0.01	0.03		
6330	0.73	0.32		0.92	-0.03		0.50	0.14		0.75	0.04		0.26	-0.49			
		0.03			0.00			0.01			0.01			-0.05			
6334	0.60	-1.07	0.65	0.63	-2.04	0.14	0.40	-0.94	0.41	0.44	-0.97	0.16	0.30	-0.07	0.39		
		-0.10	0.03		-0.30	0.01		-0.09	0.02		-0.30	0.02		-0.01	0.03		
6335	0.82	1.27	0.32	0.97	0.32	0.93	0.47	-0.14	0.31	0.77	0.10	0.22	0.26	-0.49	0.27		
		0.12	0.02		0.05	0.08		-0.01	0.01		0.03	0.02		-0.05	0.02		



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	0.70			0.92			0.49			0.74			0.31		
Median Abs Dev	0.06			0.10			0.06			0.21			0.07		
Avg Within Lab SD	0.05			0.08			0.04			0.09			0.06		
Labs Included	8			8			8			8			8		
Labs Reporting	8			8			8			8			8		

HCO3 -sp (104) in the Salinity Property Group															
															Data units: mmol/L
6276	0.18	-0.27	0.44	0.81	0.00	1.11	2.85	1.35	1.79	3.05	0.60	1.70	1.89	0.15	1.55
		-0.12	0.02		0.00	0.08		1.29	0.31		0.54	0.13		0.09	0.19
6327	0.16	-0.32	0.00	0.27	-0.90	1.26	1.35	-0.23	0.32	2.09	-0.46	0.74	1.29	-0.91	1.13
		-0.15	0.00		-0.54	0.09		-0.22	0.06		-0.41	0.06		-0.51	0.14
6330	1.10	1.71		1.30	0.82		1.50	-0.07		2.50	0.00		1.80	0.00	
		0.79			0.49			-0.07			0.00			0.00	
6334	0.80	1.07	2.15	1.41	1.01	1.44	3.22	1.73	1.26	4.57	2.30	1.02	2.59	1.40	1.06
		0.50	0.10		0.60	0.11		1.65	0.22		2.07	0.08		0.79	0.13
6335	0.31	0.00	0.45	0.42	-0.64	0.32	1.57	0.00	0.34	2.50	0.00	0.72	1.29	-0.91	0.44
		0.00	0.02		-0.38	0.02		0.00	0.06		0.00	0.06		-0.51	0.06
Grand Median	0.31			0.81			1.57			2.50			1.80		
Median Abs Dev	0.31			0.40			0.64			0.61			0.38		
Avg Within Lab SD	0.05			0.07			0.17			0.08			0.13		
Labs Included	5			5			5			5			5		
Labs Reporting	5			5			5			5			5		

Ca - sp (105) in the Salinity Property Group															
															Data units: mmol/L
6276	3.78	0.04	0.37	5.66	0.00	1.13	2.83	0.61	0.75	6.60	0.00	0.61	1.60	0.00	0.34
		0.03	0.09		0.00	0.36		0.26	0.12		0.00	0.29		0.00	0.09
6283	3.56	-0.24	1.02	3.70	-1.35	1.48	1.83	-1.71	0.94	4.75	-1.22	0.80	1.59	-0.01	0.49
		-0.19	0.23		-1.96	0.47		-0.74	0.15		-1.85	0.38		0.00	0.13
6306	3.75	0.00	1.36	5.70	0.03	1.49	2.57	0.00	2.13	6.92	0.21	2.27	1.92	1.18	2.53
		0.00	0.31		0.04	0.48		0.00	0.33		0.32	1.08		0.32	0.65
6327	3.25	-0.61	1.76	4.63	-0.71	0.33	2.10	-1.09	0.10	5.63	-0.64	0.58	1.37	-0.83	0.30
		-0.50	0.40		-1.03	0.11		-0.47	0.02		-0.97	0.27		-0.23	0.08



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6330	4.70	1.16		6.20	0.37		2.70	0.31		7.60	0.66		1.60	0.01	
		0.95			0.54			0.13			1.00			0.00	
6334	3.20	-0.67	0.22	4.18	-1.01	0.55	2.38	-0.42	0.98	4.28	-1.52	0.50	1.95	1.32	0.35
		-0.55	0.05		-1.48	0.18		-0.18	0.15		-2.32	0.24		0.36	0.09
6335	5.40	2.01	0.91	7.50	1.26	0.95	2.82	0.59	0.28	7.32	0.48	0.53	1.23	-1.37	0.12
		1.65	0.21		1.83	0.30		0.25	0.04		0.72	0.25		-0.37	0.03
Grand Median		3.75			5.66			2.57			6.60			1.60	
Median Abs Dev		0.55			0.98			0.29			1.03			0.18	
Avg Within Lab SD		0.23			0.32			0.16			0.48			0.26	
Labs Included		7			7			7			7			7	
Labs Reporting		7			7			7			7			7	

Mg - sp (106) in the Salinity Property Group															
														Data units: mmol/L	
6276	0.87	0.00	0.51	2.84	1.11	1.23	2.02	1.57	0.53	0.42	-0.29	0.49	1.09	0.38	0.32
		0.00	0.03		0.51	0.20		0.52	0.06		-0.06	0.03		0.09	0.04
6283	0.69	-0.95	1.63	1.72	-1.34	1.75	1.31	-0.58	0.80	0.17	-1.50	0.88	1.17	0.68	1.31
		-0.17	0.08		-0.61	0.28		-0.19	0.09		-0.31	0.05		0.17	0.16
6306	0.75	-0.64	1.63	2.53	0.43	1.18	1.50	0.00	2.04	0.45	-0.15	0.90	0.95	-0.22	2.15
		-0.12	0.08		0.20	0.19		0.00	0.22		-0.03	0.05		-0.05	0.25
6327	0.94	0.41	0.44	2.33	0.00	0.76	1.52	0.07	0.77	0.48	0.00	1.12	0.93	-0.30	0.13
		0.07	0.02		0.00	0.12		0.02	0.08		0.00	0.06		-0.07	0.02
6330	1.10	1.28		2.90	1.24		1.90	1.22		0.60	0.59		1.00	0.00	
		0.23			0.57			0.40			0.12			0.00	
6334	1.04	0.97	0.82	2.08	-0.56	0.54	1.50	0.00	0.74	0.93	2.17	1.70	1.07	0.30	0.74
		0.18	0.04		-0.26	0.09		0.00	0.08		0.45	0.09		0.07	0.09
6335	0.78	-0.48	0.73	2.31	-0.04	0.38	1.08	-1.28	0.89	0.48	0.01	1.03	0.31	-2.84	0.13
		-0.09	0.04		-0.02	0.06		-0.42	0.10		0.00	0.05		-0.69	0.02
Grand Median		0.87			2.33			1.50			0.48			1.00	
Median Abs Dev		0.12			0.31			0.22			0.14			0.16	
Avg Within Lab SD		0.05			0.16			0.11			0.05			0.12	
Labs Included		7			7			7			7			7	
Labs Reporting		7			7			7			7			7	



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Na - sp (107) in the Salinity Property Group															
	Data units: mmole/L														
6276	0.62	-0.56	1.01	0.27	-1.43	0.48	0.21	-1.76	0.18	0.21	-1.24	0.93	0.62	-0.39	0.04
		-0.10	0.36		-0.38	0.05		-0.39	0.04		-0.31	0.05		-0.14	0.01
6283	0.71	0.00	0.16	0.65	0.00	1.89	0.53	-0.30	0.86	0.50	-0.11	1.29	0.90	0.41	0.19
		0.00	0.06		0.00	0.18		-0.07	0.20		-0.03	0.07		0.14	0.05
6306	0.72	0.06	0.19	0.75	0.39	1.39	0.84	1.09	0.61	0.63	0.41	1.29	1.55	2.29	2.62
		0.01	0.07		0.10	0.13		0.24	0.14		0.10	0.07		0.79	0.70
6327	1.13	2.42	2.42	0.23	-1.61	0.83	0.67	0.30	2.41	0.17	-1.42	1.16	0.59	-0.48	0.24
		0.42	0.86		-0.42	0.08		0.07	0.55		-0.36	0.06		-0.17	0.06
6330	0.60	-0.66		0.50	-0.57		0.60	0.00		0.60	0.31		0.60	-0.45	
		-0.11			-0.15			0.00			0.08			-0.16	
6334	0.71	-0.02	0.18	0.65	0.00	0.52	0.48	-0.56	0.11	0.52	0.00	0.49	0.76	0.00	0.08
		0.00	0.07		0.00	0.05		-0.12	0.03		0.00	0.03		0.00	0.02
6335	0.89	1.00	0.17	0.84	0.72	0.56	0.75	0.70	0.20	0.83	1.24	1.10	0.99	0.68	0.22
		0.17	0.06		0.19	0.05		0.15	0.05		0.31	0.06		0.24	0.06
Grand Median		0.71		0.65			0.60			0.52			0.76		
Median Abs Dev		0.12		0.18			0.15			0.17			0.23		
Avg Within Lab SD		0.36		0.10			0.23			0.05			0.27		
Labs Included		7		7			7			7			7		
Labs Reporting		7		7			7			7			7		

SAR - sp (108) in the Salinity Property Group															
	Data units: value														
6276	0.41	-0.51	0.84	0.13	-1.03	0.49	0.14	-1.97	0.13	0.11	-1.44	0.84	0.54	-0.33	0.11
		-0.07	0.24		-0.17	0.02		-0.32	0.02		-0.19	0.02		-0.13	0.02
6283	0.49	0.08	0.14	0.39	0.57	1.76	0.43	-0.19	0.90	0.32	0.13	1.83	0.77	0.28	0.49
		0.01	0.04		0.09	0.08		-0.03	0.17		0.02	0.05		0.11	0.08
6306	0.47	-0.08	0.20	0.37	0.42	1.24	0.60	0.85	0.90	0.30	0.00	0.00	1.27	1.58	2.32
		-0.01	0.06		0.07	0.06		0.14	0.17		0.00	0.00		0.61	0.38
6327	0.80	2.28	2.29	0.12	-1.09	0.89	0.49	0.19	2.08	0.10	-1.57	1.05	0.55	-0.28	0.42
		0.33	0.65		-0.18	0.04		0.03	0.40		-0.20	0.03		-0.11	0.07
6330	0.35	-0.90		0.23	-0.42		0.40	-0.37		0.30	0.00		0.53	-0.34	
		-0.13			-0.07			-0.06			0.00			-0.13	



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6335	0.51	0.20 0.03	0.09 0.03	0.38	0.51 0.08	0.57 0.03	0.54	0.48 0.08	0.19 0.04	0.42	0.90 0.12	0.90 0.03	1.14	1.24 0.48	0.45 0.07
Grand Median		0.48		0.30			0.46			0.30			0.66		
Median Abs Dev		0.10		0.11			0.11			0.09			0.26		
Avg Within Lab SD		0.28		0.05			0.19			0.03			0.16		
Labs Included		6		6			6			6			6		
Labs Reporting		6		6			6			6			6		

Cl - sp (109) in the Salinity Property Group															
															Data units: mmole/L
6276	0.54	0.58 0.16	1.14 0.51	0.31	-0.89 -0.12	0.19 0.03	0.52	-0.57 -0.13	0.14 0.03	0.55	-0.29 -0.05	1.17 0.04	0.19	-0.06 -0.02	0.10 0.02
6283	0.32	-0.22 -0.06	0.02 0.01	0.46	0.22 0.03	0.76 0.11	0.59	-0.26 -0.06	0.22 0.05	0.60	0.00 0.00	1.24 0.05	0.29	0.33 0.08	0.09 0.02
6306	0.38	-0.01 0.00	0.09 0.04	0.66	1.62 0.22	2.43 0.36	0.85	0.84 0.20	0.23 0.06	0.77	0.91 0.17	0.47 0.02	0.66	1.82 0.46	2.63 0.45
6327	1.29	3.38 0.91	2.39 1.08	0.31	-0.90 -0.12	0.65 0.10	0.98	1.43 0.33	2.62 0.62	0.45	-0.82 -0.15	1.49 0.06	0.20	0.00 0.00	0.22 0.04
6330	0.48	0.37 0.10		0.32	-0.82 -0.11		0.74	0.38 0.09		0.62	0.11 0.02		0.74	2.12 0.54	
6334	0.34	-0.15 -0.04	0.02 0.01	0.43	0.00 0.00	0.20 0.03	0.36	-1.24 -0.29	0.11 0.03	0.36	-1.27 -0.24	0.68 0.03	0.13	-0.30 -0.08	0.09 0.02
6335	0.38	0.00 0.00	0.04 0.02	0.47	0.27 0.04	0.07 0.01	0.65	0.00 0.00	0.13 0.03	0.84	1.31 0.24	1.09 0.04	0.18	-0.09 -0.02	0.18 0.03
Grand Median		0.38		0.43			0.65			0.60			0.20		
Median Abs Dev		0.18		0.09			0.16			0.13			0.17		
Avg Within Lab SD		0.45		0.15			0.24			0.04			0.17		
Labs Included		7		7			7			7			7		
Labs Reporting		7		7			7			7			7		

SO4 - sp (110) in the Salinity Property Group															
															Data units: mmole/L
6276	0.91	2.02 0.26	0.43 0.02	1.26	1.95 0.41	1.14 0.09	0.85	1.61 0.33	0.44 0.03	1.04	1.95 0.36	0.73 0.03	0.72	1.96 0.22	0.42 0.02



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6283	0.67	0.21	1.27	0.85	0.00	0.82	0.52	0.00	0.93	0.62	-0.30	1.07	0.50	0.00	1.16
		0.03	0.06		0.00	0.07		0.00	0.06		-0.06	0.04		0.00	0.05
6327	0.65	0.00	1.27	0.60	-1.15	1.10	0.44	-0.41	1.95	0.49	-1.00	1.72	0.50	0.03	1.76
		0.00	0.06		-0.24	0.09		-0.08	0.12		-0.19	0.07		0.00	0.08
6330	0.60	-0.36		0.80	-0.22		0.70	0.87		0.70	0.12		0.50	0.00	
		-0.05			-0.05			0.18			0.02			0.00	
6335	0.55	-0.78	1.27	0.86	0.05	1.35	0.43	-0.48	0.40	0.68	0.00	0.62	0.35	-1.38	0.63
		-0.10	0.06		0.01	0.11		-0.10	0.03		0.00	0.03		-0.15	0.03
Grand Median		0.65			0.85			0.52			0.68			0.50	
Median Abs Dev		0.09			0.14			0.14			0.13			0.07	
Avg Within Lab SD		0.04			0.08			0.06			0.04			0.05	
Labs Included		5			5			5			5			5	
Labs Reporting		5			5			5			5			5	

NO3 - sp (111)		in the Salinity Property Group										Data units: mmol/L			
6276	4.47				6.57				1.19			2.69			0.62
6327	3.81				6.00				1.38			2.76			0.63
6330	5.25				6.82				2.12			3.77			0.83
Grand Median					4.47				1.38			2.76			0.63
Median Abs Dev															
Avg Within Lab SD															
Labs Included					3				3			3			3
Labs Reporting					3				3			3			3

B - sp (112)		in the Salinity Property Group										Data units: mg/L			
6276	0.07	0.22	2.41	0.11	0.10	1.75	0.06	-0.16	1.69	0.05	-0.15	1.78	0.14	-0.17	0.74
		0.01	0.05		0.00	0.02		-0.01	0.01		-0.01	0.01		-0.02	0.01
6283	0.06	-0.22	0.27	0.11	0.19	0.84	0.07	0.05	0.97	0.07	0.15	0.00	0.17	0.17	0.74
		-0.01	0.01		0.01	0.01		0.00	0.01		0.01	0.00		0.02	0.01



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6327	0.03	-0.84	0.31	0.07	-0.88	0.76	0.05	-0.28	0.55	0.03	-0.54	0.69	0.12	-0.32	1.03
		-0.03	0.01		-0.03	0.01		-0.02	0.00		-0.03	0.00		-0.03	0.02
6330	0.10	0.92		0.10	-0.10		0.20	2.13		0.10	0.69		0.30	1.72	
		0.04			0.00			0.13			0.04			0.15	
6334	0.11	1.19	0.00	0.19	2.40	0.97	0.15	1.37	0.97	0.18	2.13	1.54	0.27	1.41	1.96
		0.05	0.00		0.08	0.01		0.08	0.01		0.12	0.01		0.12	0.03
6335	0.04	-0.66	0.00	0.09	-0.38	0.84	0.07	-0.05	0.97	0.04	-0.39	0.00	0.13	-0.25	0.00
		-0.03	0.00		-0.01	0.01		0.00	0.01		-0.02	0.00		-0.02	0.00
Grand Median		0.07		0.10			0.07			0.06			0.15		
Median Abs Dev		0.03		0.02			0.04			0.04			0.06		
Avg Within Lab SD		0.02		0.01			0.01			0.01			0.02		
Labs Included		6		6			6			6			6		
Labs Reporting		6		6			6			6			6		

Soil EC (1:1) (113) in the Soil pH & EC Property Group															
															Data units: dS/m
6278	0.18	-0.24	0.07	0.45	0.65	0.28	0.20	-0.22	1.12	0.84	0.11	0.36	0.13	-0.35	
		-0.01	0.00		0.03	0.01		-0.01	0.02		0.02	0.01		-0.01	
6283	0.14	-1.23	1.43	0.43	0.08	0.18	0.18	-1.12	0.00	0.84	0.07	0.42	0.13	-0.30	0.53
		-0.05	0.02		0.00	0.01		-0.03	0.00		0.01	0.01		-0.01	0.01
6306	0.14	-1.43	0.85	0.39	-0.85	0.81	0.21	0.22	1.14	0.79	-0.18	0.56	0.20	1.79	1.39
		-0.06	0.01		-0.03	0.03		0.01	0.02		-0.03	0.02		0.06	0.02
6307	0.21	0.59	1.43	0.38	-0.99	0.57	0.23	1.12	0.00	0.81	-0.07	0.68	0.18	1.41	0.00
		0.02	0.02		-0.04	0.02		0.03	0.00		-0.01	0.02		0.05	0.00
6327	0.20	0.24	0.94	0.42	-0.08	2.15	0.22	0.67	1.31	0.44	-2.27	1.48	0.14	0.10	0.91
		0.01	0.01		0.00	0.07		0.02	0.02		-0.39	0.04		0.00	0.01
6330	0.20	0.33	0.54	0.48	1.40	0.53	0.19	-0.67	1.31	1.05	1.34	1.65	0.13	-0.10	1.39
		0.01	0.01		0.06	0.02		-0.02	0.02		0.23	0.05		0.00	0.02
Grand Median		0.19		0.42			0.21			0.82			0.14		
Median Abs Dev		0.03		0.03			0.02			0.12			0.02		
Avg Within Lab SD		0.01		0.03			0.02			0.03			0.01		
Labs Included		6		6			6			6			6		
Labs Reporting		6		6			6			6			6		



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Soil EC (1:2) (114) in the Soil pH & EC Property Group															
	Data units: dS/m														
6278	0.10	-0.19	0.00	0.20	0.06	0.02	0.12	0.08	0.61	0.30	-0.12	0.44	0.09	-0.25	0.41
		-0.01	0.00		0.00	0.00		0.00	0.00		-0.01	0.01		-0.01	0.00
6284	0.14	0.88	0.00	0.20	-0.06	0.13	0.11	-0.08	1.89	0.31	0.00	0.77	0.10	0.18	1.15
		0.03	0.00		0.00	0.01		0.00	0.02		0.00	0.01		0.01	0.01
6289	0.16	1.30	0.10	0.21	0.26	0.03	0.15	1.29	0.25	0.36	0.58	0.12	0.12	0.83	0.18
		0.05	0.00		0.01	0.00		0.03	0.00		0.05	0.00		0.02	0.00
6305	0.10	-0.39	0.00	0.17	-0.67	0.18	0.10	-0.68	0.40	0.50	2.14	1.93	0.09	-0.07	0.48
		-0.01	0.00		-0.03	0.02		-0.02	0.00		0.19	0.02		0.00	0.00
6306	0.11	0.15	1.45	0.23	0.52	0.16	0.11	-0.20	1.55	0.49	2.09	0.85	0.11	0.37	2.56
		0.01	0.01		0.03	0.01		-0.01	0.01		0.18	0.01		0.01	0.02
6327	0.10	-0.15	0.60	0.39	3.65	3.15	0.12	0.18	1.24	0.31	0.00	1.33	0.08	-0.39	0.66
		-0.01	0.01		0.19	0.28		0.00	0.01		0.00	0.02		-0.01	0.01
6334	0.10	-0.15	2.15	0.20	-0.06	0.06	0.13	0.71	0.71	0.26	-0.54	0.89	0.10	0.07	0.66
		-0.01	0.02		0.00	0.01		0.02	0.01		-0.05	0.01		0.00	0.01
6336	0.13	0.50	0.26	0.18	-0.32	0.06	0.09	-0.88	0.71	0.39	0.96	0.89	0.09	-0.31	0.59
		0.02	0.00		-0.02	0.01		-0.02	0.01		0.08	0.01		-0.01	0.01
6343	0.09	-0.62	0.60	0.17	-0.58	0.11	0.10	-0.74	0.71	0.30	-0.15	1.18	0.07	-0.97	0.66
		-0.02	0.01		-0.03	0.01		-0.02	0.01		-0.01	0.02		-0.03	0.01
6353	0.19	2.40	1.58	0.23	0.58	0.01	0.16	1.89	0.62	0.30	-0.16	0.12	0.19	3.31	0.18
		0.09	0.02		0.03	0.00		0.05	0.01		-0.01	0.00		0.10	0.00
Grand Median	0.11			0.20			0.12			0.31			0.09		
Median Abs Dev	0.02			0.03			0.02			0.06			0.02		
Avg Within Lab SD	0.01			0.09			0.01			0.01			0.01		
Labs Included	10			10			10			10			10		
Labs Reporting	10			10			10			10			10		

pH (1:1) Water (115) in the Soil pH & EC Property Group															
	Data units: Unit														
6276	5.50	-0.33	0.04	6.30	1.06	0.07	7.07	0.96	1.30	7.92	0.85	0.33	8.30	0.13	0.05
		-0.05	0.00		0.17	0.00		0.16	0.06		0.11	0.02		0.03	0.00
6278	5.58	0.13	0.21	5.97	-1.07	0.22	6.78	-0.74	0.00	7.66	-1.13	0.11	7.96	-1.22	0.25
		0.02	0.02		-0.17	0.01		-0.13	0.00		-0.15	0.01		-0.31	0.01



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6283	5.63	0.49	0.10	6.40	1.69	0.32	7.20	1.76	0.70	7.89	0.64	0.18	8.28	0.04	0.17
		0.08	0.01		0.26	0.02		0.30	0.03		0.09	0.01		0.01	0.01
6284	5.33	-1.42	0.58	6.03	-0.66	0.91	6.70	-1.21	0.00	7.70	-0.79	1.53	8.03	-0.94	1.00
		-0.22	0.06		-0.10	0.06		-0.21	0.00		-0.11	0.10		-0.24	0.06
6288	5.48	-0.50	0.25	6.14	0.02	0.16	6.94	0.19	0.77	7.72	-0.62	0.09	8.17	-0.40	0.46
		-0.08	0.03		0.00	0.01		0.03	0.04		-0.08	0.01		-0.10	0.03
6289	5.67	0.75	0.72	6.13	-0.02	0.78	7.01	0.64	0.45	7.84	0.27	0.54	8.28	0.04	0.76
		0.12	0.07		0.00	0.05		0.11	0.02		0.04	0.04		0.01	0.04
6304	5.60	0.30		5.95	-1.20		6.85	-0.32		8.00	1.43		7.75	-2.05	
		0.05			-0.19			-0.06			0.19			-0.52	
6306	5.80	1.58	3.01	6.33	1.26	2.41	7.03	0.76	1.26	7.80	-0.05	2.66	8.37	0.38	1.00
		0.25	0.30		0.20	0.15		0.13	0.06		-0.01	0.17		0.10	0.06
6307	5.63	0.51	0.58	6.03	-0.66	0.91	6.80	-0.62	0.00	7.78	-0.17	0.89	8.28	0.03	0.50
		0.08	0.06		-0.10	0.06		-0.11	0.00		-0.02	0.06		0.01	0.03
6322	5.40	-1.02	0.12	6.08	-0.38	0.09	6.66	-1.46	0.25	7.52	-2.10	0.09	7.63	-2.53	0.60
		-0.16	0.01		-0.06	0.01		-0.25	0.01		-0.28	0.01		-0.64	0.03
6327	5.53	-0.16	1.31	6.10	-0.26	1.58	6.91	0.03	1.43	7.81	0.05	0.76	8.27	0.01	1.65
		-0.02	0.13		-0.04	0.10		0.01	0.07		0.01	0.05		0.00	0.10
6330	5.47	-0.54	0.72	6.19	0.34	0.88	7.03	0.72	1.61	7.82	0.10	1.41	8.32	0.20	1.93
		-0.08	0.07		0.05	0.06		0.12	0.07		0.01	0.09		0.05	0.11
6333	5.80	1.58		6.20	0.41		6.90	-0.03		7.80	-0.05		7.90	-1.46	
		0.25			0.06			-0.01			-0.01			-0.37	
6353	5.53	-0.13	1.16	6.20	0.41	1.58	6.90	-0.03	2.18	7.97	1.19	0.89	8.27	-0.01	2.01
		-0.02	0.12		0.06	0.10		-0.01	0.10		0.16	0.06		0.00	0.12
Grand Median		5.55			6.14			6.91			7.81			8.27	
Median Abs Dev		0.10			0.11			0.11			0.09			0.17	
Avg Within Lab SD		0.10			0.06			0.05			0.07			0.06	
Labs Included		14			14			14			14			14	
Labs Reporting		14			14			14			14			14	

pH (1:2) Water (116)

in the Soil pH & EC Property Group

Data units: Unit

6278	5.80	-0.44	0.39	6.06	-1.37	0.20	6.84	-0.79	0.17	7.85	-0.45	0.09	8.07	-2.20	0.07
		-0.10	0.04		-0.18	0.01		-0.13	0.01		-0.05	0.01		-0.26	0.01



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6305	5.99	0.41	1.76	6.11	-0.97	0.23	6.85	-0.70	1.00	7.90	-0.01	0.81	8.30	-0.25	0.36
		0.10	0.16		-0.13	0.02		-0.12	0.04		0.00	0.06		-0.03	0.04
6306	5.60	-1.27	0.00	6.33	0.67	0.80	7.13	1.00	1.40	8.03	1.18	1.47	8.37	0.34	0.56
		-0.30	0.00		0.09	0.06		0.17	0.06		0.14	0.12		0.04	0.06
6327	5.90	0.00	1.47	6.34	0.75	2.22	7.10	0.80	1.11	7.90	0.00	1.82	8.36	0.31	2.01
		0.00	0.13		0.10	0.16		0.13	0.05		0.00	0.14		0.04	0.21
6334	5.73	-0.71	1.01	6.30	0.40	0.70	7.17	1.22	0.64	8.06	1.41	0.89	8.46	1.12	0.45
		-0.17	0.09		0.05	0.05		0.20	0.03		0.16	0.07		0.13	0.05
6336	6.17	1.16	0.39	6.24	0.00	0.43	6.93	-0.22	0.64	7.81	-0.78	0.27	8.33	0.00	0.30
		0.27	0.04		0.00	0.03		-0.04	0.03		-0.09	0.02		0.00	0.03
6343	6.07	0.73	0.64	6.17	-0.57	0.80	6.97	0.00	1.40	8.00	0.89		8.27	-0.50	1.49
		0.17	0.06		-0.08	0.06		0.00	0.06		0.10			-0.06	0.15
Grand Median		5.90		6.24			6.97			7.90			8.33		
Median Abs Dev		0.16		0.09			0.11			0.08			0.08		
Avg Within Lab SD		0.09		0.07			0.04			0.08			0.10		
Labs Included		7		7			7			7			7		
Labs Reporting		7		7			7			7			7		

pH (1:1) 0.01M CaCl ₂ (117)		in the Soil pH & EC Property Group				Data units: Unit
6289	4.90	5.45	6.26	7.52	7.42	
6306	5.03	5.80	6.40	7.53	7.50	
6327	4.75	5.51	6.29	7.33	7.38	
6353	5.20	5.83	6.63	7.90	7.73	
Grand Median	4.97	5.66	6.35	7.53	7.46	
Median Abs Dev						
Avg Within Lab SD						
Labs Included	4	4	4	4	4	
Labs Reporting	4	4	4	4	4	



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pH (1:2) 0.01M CaCl ₂ (118) Data units: Unit																													
SRS0601				SRS0602				SRS0603				SRS0604				SRS0605													
Sample Mean		Z Score		k Score		Difference		W/L STD		Sample Mean		Z Score		k Score		Difference		W/L STD		Sample Mean		Z Score		k Score		Difference		W/L STD	
Grand Median				4.75				5.54				6.32				7.45				7.43									
Median Abs Dev				4.75				5.54				6.32				7.45				7.43									
Avg Within Lab SD				4.75				5.54				6.32				7.45				7.43									
Labs Included				1				1				1				1				1									
Labs Reporting				1				1				1				1				1									

SMP Buffer pH (121) Data units: Unit																									
in the Buffer pH, Lime Requirement Property Group																									
6276	7.14	0.59	0.93	0.10	0.04	6.98	0.92	1.41	0.13	0.07	7.24	0.71	0.72	0.09	0.04	7.46	0.52	1.27	0.06	0.03	7.55	0.67	1.62	0.05	0.04
6283	7.16	0.70	0.25	0.12	0.01	6.86	0.06	0.40	0.01	0.02	7.20	0.35	0.39	0.05	0.02	7.48	0.72	0.60	0.08	0.02	7.58	1.18	0.45	0.08	0.01
6288	7.02	-0.14	0.13	-0.03	0.01	6.80	-0.37	0.20	-0.05	0.01	7.12	-0.25	0.11	-0.03	0.01	7.37	-0.31	0.23	-0.03	0.01	7.48	-0.28	0.39	-0.02	0.01
6289	7.02	-0.14	0.46	-0.03	0.02	6.88	0.23	0.42	0.03	0.02	7.24	0.70	0.47	0.09	0.03	7.36	-0.44	0.39	-0.05	0.01	7.42	-1.09	0.23	-0.08	0.01
6304	6.63	-2.36		-0.41		6.69	-1.15		-0.16		7.17	0.15		0.02		7.70	2.76		0.29		7.65	2.13		0.15	
6327	7.07	0.14	1.13	0.03	0.05	6.78	-0.53	1.75	-0.08	0.09	7.08	-0.50	1.31	-0.07	0.07	7.37	-0.38	1.13	-0.04	0.03	7.47	-0.38	1.59	-0.03	0.04
6330	7.19	0.85	2.23	0.15	0.10	6.93	0.58	1.16	0.08	0.06	7.13	-0.13	1.07	-0.02	0.06	7.50	0.88		0.09		7.50	0.00		0.00	
6333	7.00	-0.24		-0.04		7.00	1.06		0.15		6.70	-3.38		-0.45		7.41	0.00	2.35	0.00	0.06	7.48	-0.33	1.86	-0.02	0.05
6334	7.07	0.18	1.62	0.03	0.07	6.84	-0.06	1.80	-0.01	0.09	7.09	-0.45	2.26	-0.06	0.12	7.41	0.00	2.35	0.00	0.06	7.48	-0.33	1.86	-0.02	0.05
6336	6.80	-1.39	0.00	-0.24	0.00	6.60	-1.79	0.00	-0.25	0.00	7.17	0.13	1.07	0.02	0.06	7.40	-0.06	0.00	-0.01	0.00	7.50	0.00		0.00	



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	7.04			6.85			7.15			7.41			7.50		
Median Abs Dev	0.12			0.09			0.09			0.07			0.05		
Avg Within Lab SD	0.05			0.05			0.05			0.03			0.03		
Labs Included	10			10			10			9			9		
Labs Reporting	10			10			10			9			9		

Adams-Evans Buffer pH (123)		in the Buffer pH, Lime Requirement Property Group					Data units: Unit
6278	7.79	7.47	7.69				
6289	7.68	7.59	7.80	7.46	7.86		
Grand Median	7.73	7.53	7.75	7.46	7.86		
Median Abs Dev							
Avg Within Lab SD							
Labs Included	2	2	2	1	1		
Labs Reporting	2	2	2	1	1		

Woodruff Buffer pH (124)		in the Buffer pH, Lime Requirement Property Group					Data units: Unit
6289	6.72	6.82	6.92	7.07	7.01		
6306	6.83	6.80	7.07	7.40	7.20		
6353	7.17	7.07	7.43	7.83	7.73		
Grand Median	6.83	6.82	7.07	7.40	7.20		
Median Abs Dev							
Avg Within Lab SD							
Labs Included	3	3	3	3	3		
Labs Reporting	3	3	3	3	3		

NO3-N Cd. Rd. (126)		in the Inorganic Nitrogen (NO3-N & NH4-N) Property Group					Data units: mg/kg
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ALP Program - Participant Web Summary Report - Cycle 01

	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6276	19.83	0.00	0.25	31.00	-1.07	0.78	6.67	-1.25	0.43	30.00	0.24	0.92	2.50	-1.51	
		0.00	0.29		-4.00	1.32		-2.33	0.29		0.83	1.32		-1.20	
6283	17.70	-0.89	2.56	37.47	0.66	0.36	10.40	0.75	1.29	26.90	-0.64	0.54	3.70	0.00	2.22
		-2.13	2.98		2.47	0.61		1.40	0.87		-2.27	0.78		0.00	0.87
6284	22.00	0.91		37.00	0.53		9.00	0.00		36.00	1.94		4.00	0.38	
		2.17			2.00			0.00			6.83			0.30	
6288	20.33	0.21	0.30	34.50	-0.13	0.29	7.10	-1.02	0.00	29.40	0.07	0.42	2.27	-1.81	0.29
		0.50	0.35		-0.50	0.50		-1.90	0.00		0.23	0.60		-1.43	0.12
6289	17.95	-0.79	0.13	32.90	-0.56	0.82	5.25	-2.01	0.37	27.75	-0.40	0.17	3.25	-0.57	0.64
		-1.88	0.15		-2.10	1.40		-3.75	0.25		-1.42	0.25		-0.45	0.25
6291	20.37	0.22	1.15	30.90	-1.09	0.87	9.30	0.16	2.18	29.17	0.00	0.87	3.93	0.29	0.89
		0.53	1.33		-4.10	1.48		0.30	1.47		0.00	1.25		0.23	0.35
6304	17.81	-0.85		35.12	0.03		9.85	0.45		26.59	-0.73		4.57	1.10	
		-2.02			0.12			0.85			-2.57			0.87	
6305	20.03	0.08	0.31	31.54	-0.92	1.29	7.32	-0.90	0.30	27.71	-0.41	2.55	3.58	-0.15	1.41
		0.19	0.36		-3.46	2.18		-1.68	0.20		-1.45	3.66		-0.12	0.55
6306	22.43	1.09	1.94	35.93	0.25	2.46	8.87	-0.07	0.91	32.57	0.97	0.58	3.10	-0.76	0.44
		2.60	2.25		0.93	4.18		-0.13	0.61		3.40	0.83		-0.60	0.17
6307	16.59	-1.36	0.11	33.79	-0.32	0.69	9.07	0.04	0.19	26.35	-0.80	0.67	4.29	0.75	0.42
		-3.25	0.12		-1.21	1.17		0.07	0.13		-2.82	0.96		0.59	0.17
6327	19.83	0.00	1.47	40.23	1.39	1.30	11.43	1.31	2.40	31.10	0.55	1.87	3.95	0.32	1.47
		0.00	1.70		5.23	2.20		2.43	1.62		1.93	2.69		0.25	0.58
6330	22.67	1.18	0.50	39.67	1.24	0.90	10.00	0.54		32.67	0.99	0.40	4.00	0.38	
		2.83	0.58		4.67	1.53		1.00			3.50	0.58		0.30	
6334	22.33	1.04	0.50	35.00	0.00	0.59	8.67	-0.18	0.86	33.00	1.09	1.21	3.33	-0.46	1.47
		2.50	0.58		0.00	1.00		-0.33	0.58		3.83	1.73		-0.37	0.58
6335	19.30	-0.22	0.37	38.97	1.06	0.61	10.67	0.89	0.52	29.03	-0.04	0.29	4.20	0.63	0.51
		-0.53	0.44		3.97	1.04		1.67	0.35		-0.13	0.42		0.50	0.20
6343	16.77	-1.28	0.55	31.77	-0.86	1.16	8.00	-0.54	0.74	24.77	-1.25	0.65	2.90	-1.01	0.92
		-3.07	0.64		-3.23	1.97		-1.00	0.50		-4.40	0.93		-0.80	0.36



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	19.83			35.00			9.00			29.17			3.70		
Median Abs Dev	1.61			2.53			1.26			2.38			0.53		
Avg Within Lab SD	1.16			1.70			0.68			1.44			0.39		
Labs Included	15			15			15			15			15		
Labs Reporting	15			15			15			15			15		

NO3-N CTA (128)			in the Inorganic Nitrogen (NO3-N & NH4-N) Property Group									Data units: mg/kg		
6278	18.20		38.80			10.20			29.20			3.73		
Grand Median	18.20		38.80			10.20			29.20			3.73		
Median Abs Dev														
Avg Within Lab SD														
Labs Included	1		1			1			1			1		
Labs Reporting	1		1			1			1			1		

NH4 - N (KCl Extr.) (130)				in the Inorganic Nitrogen (NO3-N & NH4-N) Property Group												Data units: mg/kg		
6276	7.18	0.49	0.98	8.75	-0.12	0.47	4.95	0.00	2.00	16.02	0.24	0.45	3.92	0.00	1.70			
		1.82	0.71		-0.38	0.35		0.00	1.34		1.27	0.46		0.00	1.01			
6278	7.47	0.56	0.08	11.17	0.63	0.51	6.00	0.52	0.15	12.73	-0.39	0.43	3.30	-0.41	0.17			
		2.10	0.06		2.03	0.38		1.05	0.10		-2.01	0.45		-0.62	0.10			
6284	3.10	-0.61		11.00	0.58		4.50	-0.22		22.00	1.39		2.40	-1.00				
		-2.27			1.87			-0.45			7.25			-1.52				
6305	5.37	0.00	0.99	7.12	-0.62	1.50	5.57	0.30	1.01	9.61	-0.98	2.44	5.08	0.77	2.23			
		0.00	0.71		-2.01	1.11		0.62	0.68		-5.14	2.54		1.16	1.32			
6306	6.00	0.17	0.14	11.03	0.59	0.08	6.60	0.81	0.74	16.70	0.37	0.00	4.07	0.10	0.10			
		0.63	0.10		1.90	0.06		1.65	0.50		1.95	0.00		0.15	0.06			
6327	4.40	-0.26	0.64	9.13	0.00	1.16	4.37	-0.29	0.52	13.77	-0.19	1.22	2.77	-0.76	0.26			
		-0.97	0.46		0.00	0.86		-0.58	0.35		-0.98	1.27		-1.15	0.15			
6330	5.24	-0.03	0.84	8.50	-0.19	0.48	3.40	-0.76	0.42	14.75	0.00	0.11	3.37	-0.36	0.11			
		-0.13	0.61		-0.63	0.36		-1.55	0.29		0.00	0.11		-0.54	0.07			
6334	19.00	3.65	2.41	18.67	2.94	2.07	11.33	3.13	1.71	24.00	1.77	0.96	7.33	2.26	0.97			
		13.63	1.73		9.53	1.53		6.38	1.15		9.25	1.00		3.42	0.58			



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6343	4.27	-0.29	0.35	7.83	-0.40	0.64	4.87	-0.04	0.17	10.93	-0.73	0.49	4.53	0.41	0.26
		-1.10	0.25		-1.30	0.47		-0.08	0.12		-3.81	0.51		0.62	0.15
Grand Median		5.37		9.13			4.95			14.75			3.92		
Median Abs Dev		2.52		2.18			1.37			3.52			1.02		
Avg Within Lab SD		0.72		0.74			0.67			1.04			0.59		
Labs Included		9		9			9			9			9		
Labs Reporting		9		9			9			9			9		

PO4-P Bray P (1:10) (132) in the Phosphorus and Sulfur Property Group															
														Data units: mg/kg	
6283	26.07	0.22	0.58	64.17	0.53	0.58	88.17	1.24	0.59	0.93	-0.80	0.65	29.33	-0.14	0.31
		1.17	0.85		4.50	1.36		10.33	2.78		-2.00	0.21		-1.67	0.50
6284	36.00	2.07		57.00	-0.32		67.00	-1.30		5.00	0.83		31.00	0.00	
		11.10			-2.67			-10.84			2.07			0.00	
6288	24.90	0.00	0.18	59.67	0.00	0.49	82.13	0.52	0.18	2.93	0.00	0.65	36.00	0.41	0.44
		0.00	0.26		0.00	1.15		4.29	0.85		0.00	0.21		5.00	0.72
6304	21.18	-0.70		53.36	-0.75		77.84	0.00		5.30	0.95		27.76	-0.27	
		-3.72			-6.31			0.00			2.37			-3.24	
6306	24.67	-0.04	1.04	62.67	0.35	1.71	80.00	0.26	2.15	9.00	2.43		36.33	0.44	2.80
		-0.23	1.53		3.00	4.04		2.16	10.15		6.07			5.33	4.62
6327	19.30	-1.05	0.63	51.27	-0.99	2.16	69.47	-1.01	1.93	2.66	-0.11	1.19	77.50	3.83	0.58
		-5.60	0.92		-8.40	5.09		-8.37	9.10		-0.27	0.38		46.50	0.95
6330	25.33	0.08	0.39	61.33	0.20	0.65	84.00	0.74	0.21	2.00	-0.37		30.67	-0.03	0.35
		0.43	0.58		1.67	1.53		6.16	1.00		-0.93			-0.33	0.58
6336	16.23	-1.62	0.28	81.10	2.54	0.15	73.03	-0.58	0.20	2.10	-0.33	0.54	20.23	-0.89	0.56
		-8.67	0.42		21.43	0.36		-4.81	0.95		-0.83	0.17		-10.77	0.93
6353	26.47	0.29	2.63	56.33	-0.39	0.62	74.23	-0.43	0.45	3.53	0.24	2.54	31.80	0.07	0.32
		1.57	3.86		-3.33	1.46		-3.61	2.14		0.60	0.81		0.80	0.52
Grand Median		24.90		59.67			77.84			2.93			31.00		
Median Abs Dev		3.61		5.70			5.62			1.68			8.18		
Avg Within Lab SD		1.47		2.36			4.72			0.32			1.65		
Labs Included		9		9			9			9			9		
Labs Reporting		9		9			9			9			9		



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
PO4-P Bray P1 (1:7) (133) in the Phosphorus and Sulfur Property Group															
	Data units: mg/kg														
6283	22.67			48.07			66.53			1.40			21.27		
6334	20.33			41.00			56.00			1.33			19.67		
6343	6.00			22.33			36.67			3.33			13.67		
Grand Median	20.33			41.00			56.00			1.40			19.67		
Median Abs Dev															
Avg Within Lab SD															
Labs Included		3			3			3			3			3	
Labs Reporting		3			3			3			3			3	

	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
PO4-P Olsen/Bicarb (1:20) (134) in the Phosphorus and Sulfur Property Group															
	Data units: mg/kg														
6278	9.60	0.10	0.57	28.13	-0.10	0.05	39.40	0.06	0.24	17.07	0.42	0.88	11.47	0.39	0.11
		0.33	0.72		-0.77	0.12		0.50	0.72		2.32	0.64		1.58	0.12
6283	8.07	-0.35	0.77	29.67	0.10	0.77	44.53	0.65	0.53	14.43	-0.06	0.28	9.60	-0.07	0.78
		-1.20	0.97		0.77	1.85		5.63	1.61		-0.32	0.21		-0.28	0.85
6288	8.93	-0.10	0.12	25.60	-0.44	0.15	33.77	-0.60	0.11	13.73	-0.18	0.63	8.67	-0.30	0.28
		-0.33	0.15		-3.30	0.36		-5.13	0.32		-1.02	0.46		-1.22	0.31
6291	9.90	0.19	1.50	20.30	-1.14	0.15	38.40	-0.06	2.45	14.83	0.02	0.28	10.17	0.07	1.03
		0.63	1.90		-8.60	0.36		-0.50	7.38		0.08	0.21		0.28	1.12
6305	9.66	0.11	1.69	33.10	0.56	1.58	48.55	1.12	1.23	19.09	0.79	1.52	7.54	-0.57	0.81
		0.39	2.13		4.20	3.81		9.65	3.71		4.34	1.11		-2.34	0.89
6306	15.67	1.89	1.21	40.67	1.56	2.05	51.67	1.48	1.67	22.67	1.43	2.08	20.33	2.56	1.90
		6.40	1.53		11.77	4.93		12.77	5.03		7.92	1.53		10.45	2.08
6307	6.10	-0.94	0.14	30.00	0.15	0.44	42.18	0.38	0.15	12.56	-0.40	0.69	13.05	0.78	0.52
		-3.17	0.17		1.10	1.07		3.28	0.44		-2.19	0.51		3.17	0.57
6330	8.33	-0.28	1.64	27.00	-0.25	1.50	35.00	-0.45	1.00	14.67	-0.02	0.79	9.33	-0.13	1.90
		-0.93	2.08		-1.90	3.61		-3.90	3.00		-0.08	0.58		-0.55	2.08
6334	13.33	1.20	1.21	30.33	0.19	1.27	30.33	-0.99	0.19	26.67	2.16	0.79	11.33	0.36	1.40
		4.07	1.53		1.43	3.06		-8.57	0.58		11.92	0.58		1.45	1.53



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6335	6.93	-0.69	0.16	24.43	-0.59	0.13	34.33	-0.53	0.15	12.10	-0.48	0.24	9.00	-0.22	0.18
		-2.33	0.21		-4.47	0.31		-4.57	0.45		-2.65	0.17		-0.88	0.20
6336	12.67	1.00	0.46	37.83	1.18	0.64	41.00	0.24	0.35	21.33	1.19	1.34	13.87	0.98	0.29
		3.40	0.58		8.93	1.53		2.10	1.05		6.58	0.99		3.98	0.32
6343	5.07	-1.24	0.32	15.00	-1.84	0.42	25.67	-1.53	0.38	9.50	-0.95	0.68	3.07	-1.67	0.11
		-4.20	0.40		-13.90	1.00		-13.23	1.15		-5.25	0.50		-6.82	0.12
Grand Median		9.27			28.90			38.90			14.75			9.88	
Median Abs Dev		2.28			5.09			5.82			3.72			2.75	
Avg Within Lab SD		1.27			2.41			3.01			0.73			1.09	
Labs Included		12			12			12			12			12	
Labs Reporting		12			12			12			12			12	

PO4-P Stong Bray (1:10) (137)		in the Phosphorus and Sulfur Property Group										Data units: mg/kg			
6278	23.00	-0.89		95.00	0.31		127.00	0.77		33.00	0.46		262.00	0.08	
		-6.00			5.00			11.67			2.33			1.33	
6284	38.00	1.34		84.00	-0.38		93.00	-1.48		28.00	-0.53		219.00	-2.45	
		9.00			-6.00			-22.33			-2.67			-41.67	
6288	26.33	-0.40	0.14	85.67	-0.27	0.02	100.67	-0.97	0.30	37.00	1.26	0.35	253.00	-0.45	0.11
		-2.67	0.58		-4.33	0.58		-14.67	2.52		6.33	1.00		-7.67	1.73
6306	34.00	0.74	1.71	128.33	2.41	1.73	115.33	0.00	1.68	25.00	-1.12	1.61	260.67	0.00	1.70
		5.00	7.21		38.33	59.50		0.00	14.01		-5.67	4.58		0.00	27.65
6330	29.00	0.00	0.24	90.00	0.00	0.09	117.67	0.15	0.28	30.67	0.00	0.54	267.33	0.39	0.31
		0.00	1.00		0.00	3.00		2.33	2.31		0.00	1.53		6.67	5.03
Grand Median		29.00			90.00			115.33			30.67			260.67	
Median Abs Dev		4.53			10.73			10.20			3.40			11.47	
Avg Within Lab SD		4.22			34.40			8.33			2.85			16.25	
Labs Included		5			5			5			5			5	
Labs Reporting		5			5			5			5			5	

SO4 - S (PO4 Extr.) (139)		in the Phosphorus and Sulfur Property Group										Data units: mg/kg			
6276	3.83	-0.08	0.21	6.33	0.20	0.30	3.33	-0.16	0.44	8.17	0.27	0.43	2.50	-0.97	
		-0.17	0.29		0.63	0.29		-0.30	0.29		2.10	0.29		-1.38	



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6278	4.00	0.00		5.00	-0.22		4.00	0.19		4.67	-0.18	0.87	4.00	0.08	2.33
		0.00			-0.70			0.37			-1.40	0.58		0.12	1.00
6283	1.43	-1.17	0.29	2.60	-0.98	0.65	1.00	-1.36		2.77	-0.43	0.74	2.33	-1.09	0.67
		-2.57	0.40		-3.10	0.62		-2.63			-3.30	0.49		-1.55	0.29
6288	1.93	-0.94	0.15	5.10	-0.19	0.38	2.93	-0.36	0.61	5.50	-0.07	0.45	2.77	-0.78	0.27
		-2.07	0.21		-0.60	0.36		-0.70	0.40		-0.57	0.30		-1.12	0.12
6304	4.30	0.14		6.42	0.23		4.81	0.61		20.27	1.83		4.84	0.67	
		0.30			0.72			1.18			14.20			0.96	
6305	4.55	0.25	0.07	11.45	1.81	0.32	5.22	0.82	0.34	37.11	4.00	0.29	5.55	1.17	0.09
		0.55	0.09		5.75	0.31		1.59	0.22		31.04	0.19		1.67	0.04
6306	8.67	2.13	3.41	8.67	0.93	3.19	7.00	1.74	3.02	8.33	0.29	2.29	5.33	1.02	1.34
		4.67	4.73		2.97	3.06		3.37	2.00		2.27	1.53		1.45	0.58
6307	4.20	0.09	0.25	5.70	0.00	0.28	3.00	-0.33	1.20	6.07	0.00	0.17	2.53	-0.95	1.15
		0.20	0.35		0.00	0.26		-0.63	0.79		0.00	0.12		-1.35	0.49
6327	1.97	-0.93	0.43	1.53	-1.31	0.58				4.88	-0.15	0.40			
		-2.03	0.60		-4.17	0.55					-1.19	0.26			
6330	6.33	1.07	0.83	7.33	0.51	1.21	4.00	0.19		10.67	0.59	2.29	4.67	0.55	1.34
		2.33	1.15		1.63	1.15		0.37			4.60	1.53		0.78	0.58
6334	3.33	-0.30	0.42	2.00	-1.16		1.33	-1.19	0.87	6.00	-0.01		4.00	0.08	
		-0.67	0.58		-3.70			-2.30	0.58		-0.07			0.12	
6343	6.27	1.04	0.18	7.07	0.43	0.12	3.93	0.16	0.17	10.50	0.57	0.69	3.77	-0.08	0.27
		2.27	0.25		1.37	0.12		0.30	0.12		4.43	0.46		-0.12	0.12
6353	2.63	-0.62	0.21	3.17	-0.80	0.40	1.73	-0.98	0.09	3.27	-0.36	0.31	2.97	-0.64	0.27
		-1.37	0.29		-2.53	0.38		-1.90	0.06		-2.80	0.21		-0.92	0.12
Grand Median		4.00			5.70			3.63			6.07			3.88	
Median Abs Dev		1.48			2.14			1.30			5.23			0.96	
Avg Within Lab SD		1.38			0.96			0.66			0.67			0.43	
Labs Included		13			13			12			13			12	
Labs Reporting		13			13			12			13			12	

K Ammonium Acetate (140)

in the Bases (1:10) Property Group

Data units: mg/kg

6283	91.33	-0.56	0.35	278.67	1.29	1.65	358.33	1.38	1.12	583.00	0.63	0.64	548.33	0.92	0.88
		-11.16	2.31		35.32	14.50		67.98	15.31		42.83	13.00		48.39	16.86



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6284	137.00	1.72		245.00	0.06		284.00	-0.13		570.00	0.44		472.00	-0.53	
		34.51			1.66			-6.36			29.83			-27.95	
6288	101.67	-0.04	0.31	211.33	-1.17	0.35	228.67	-1.25	0.38	541.33	0.02	0.10	439.67	-1.14	0.27
		-0.83	2.08		-32.01	3.06		-61.69	5.13		1.16	2.08		-60.28	5.13
6289	103.32	0.04	0.63	204.06	-1.44	1.13	241.72	-0.99	0.66	536.14	-0.06	0.50	428.84	-1.35	0.97
		0.83	4.14		-39.29	9.94		-48.63	8.96		-4.03	10.19		-71.10	18.61
6291	100.62	-0.09	2.90	257.43	0.52	1.67	314.13	0.48	2.57	588.57	0.71	1.73	504.97	0.10	2.42
		-1.88	19.21		14.09	14.66		23.78	35.04		48.39	35.42		5.02	46.21
6304	141.79	1.95		220.04	-0.85		317.49	0.55		348.48	-2.82		561.70	1.17	
		39.30			-23.30			27.13			-191.69			61.75	
6305	113.86	0.57	0.71	244.35	0.04	0.78	241.11	-1.00	0.90	608.95	1.01	0.41	498.56	-0.03	1.02
		11.37	4.71		1.01	6.87		-49.24	12.29		68.77	8.42		-1.39	19.55
6306	141.00	1.92	1.20	268.00	0.90	2.09	301.67	0.23	0.72	633.00	1.36	1.42	579.33	1.50	1.65
		38.51	7.94		24.66	18.36		11.31	9.87		92.83	29.00		79.39	31.56
6307	104.68	0.11	0.70	256.14	0.47	0.37	296.71	0.13	0.36	515.66	-0.36	0.15	475.24	-0.47	0.20
		2.19	4.66		12.80	3.22		6.36	4.86		-24.51	3.16		-24.71	3.88
6327	82.74	-0.98	0.67	250.56	0.26	0.65	328.08	0.77	0.97	539.01	-0.02	1.44	502.59	0.05	1.35
		-19.75	4.40		7.22	5.69		37.73	13.28		-1.16	29.43		2.64	25.78
6330	99.00	-0.17	1.58	220.00	-0.85	0.80	245.33	-0.91	1.59	526.00	-0.21	0.75	454.33	-0.86	0.36
		-3.50	10.44		-23.34	7.00		-45.02	21.73		-14.17	15.39		-45.61	6.81
6334	115.00	0.62	0.66	228.33	-0.55	1.55	273.33	-0.35	0.73	579.33	0.58	0.84	504.00	0.08	1.06
		12.51	4.36		-15.01	13.58		-17.02	10.02		39.16	17.21		4.05	20.30
6335	76.00	-1.32	0.54	252.00	0.32	0.46	300.00	0.20	0.34	621.00	1.19	0.20	439.33	-1.15	0.29
		-26.50	3.61		8.66	4.00		9.64	4.58		80.83	4.00		-60.61	5.51
6336	107.67	0.26	0.38	242.33	-0.04	0.35	247.00	-0.88	0.19	491.67	-0.71	2.55	501.33	0.03	0.37
		5.17	2.52		-1.01	3.06		-43.36	2.65		-48.51	52.04		1.39	7.09
6343	98.00	-0.22	0.66	233.33	-0.37	0.40	321.33	0.63	0.37	533.67	-0.10	0.31	514.33	0.27	0.30
		-4.50	4.36		-10.01	3.51		30.98	5.03		-6.51	6.43		14.39	5.69
6353	98.00	-0.22	0.54	197.67	-1.67	0.24	245.33	-0.91	1.33	500.00	-0.59	0.37	438.67	-1.16	1.08
		-4.50	3.61		-45.68	2.08		-45.02	18.18		-40.17	7.55		-61.28	20.60



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	102.50			243.34			290.36			540.17			499.95		
Median Abs Dev	13.56			18.44			33.20			45.91			35.62		
Avg Within Lab SD	6.62			8.79			13.63			20.43			19.12		
Labs Included	16			16			16			16			16		
Labs Reporting	16			16			16			16			16		

Ca Ammonium Acetate (141)															in the Bases (1:10) Property Group															Data units: mg/kg		
6283	524.67	-0.63	0.29				3,176.67	0.74	0.12				1,791.67	1.06	0.37				9,761.67	0.11	0.41				1,502.33	0.00	0.25					
		-67.67	20.03					472.67	14.64					374.33	31.50					476.67	274.50					0.00	14.29					
6284	620.00	0.26					2,520.00	-0.29					1,290.00	-0.36					8,650.00	-0.15					1,330.00	-0.66						
		27.67						-184.00						-127.33						-635.00						-172.33						
6289	554.30	-0.35	0.61				2,453.09	-0.39	0.92				1,347.62	-0.20	1.33				8,288.23	-0.24	0.17				1,241.92	-0.99	0.48					
		-38.03	41.63					-250.91	107.88					-69.72	113.85					-996.77	113.58					-260.42	27.42					
6291	876.67	2.65	3.56				3,584.67	1.38	2.00				2,061.33	1.83	2.72				23,800.00	3.42	3.68				2,151.67	2.48	1.30					
		284.33	243.74					880.67	235.57					644.00	231.81					14,515.00	2,473.14					649.33	74.53					
6304	716.00	1.15					2,343.40	-0.57					1,384.70	-0.09					13,036.40	0.88					1,418.00	-0.32						
		123.67						-360.60						-32.63						3,751.40						-84.33						
6305	555.30	-0.35	0.05				2,428.18	-0.43	0.03				1,125.89	-0.83	0.38				11,350.42	0.49	0.37				1,208.14	-1.12	0.11					
		-37.03	3.66					-275.82	3.81					-291.45	32.44					2,065.42	250.71					-294.19	6.57					
6306	685.67	0.87	0.37				2,850.33	0.23	2.57				1,480.67	0.18	1.46				9,285.00	0.00	0.04				1,872.00	1.41	3.29					
		93.33	25.54					146.33	302.36					63.33	124.81					0.00	29.00					369.67	189.01					
6307	483.33	-1.02	0.04				2,493.33	-0.33	0.21				1,390.00	-0.08	0.54				5,764.67	-0.83	0.00				1,890.00	1.48	0.12					
		-109.00	2.89					-210.67	25.17					-27.33	46.36					-3,520.33	2.52					387.67	7.00					
6327	452.93	-1.30	0.34				3,025.50	0.50	1.32				1,781.27	1.03	0.65				8,712.40	-0.14	0.25				1,391.60	-0.42	1.14					
		-139.40	23.09					321.50	154.86					363.93	55.22					-572.60	170.81					-110.73	65.62					
6330	604.33	0.11	0.70				2,922.33	0.34	0.85				1,499.33	0.23	1.03				10,634.33	0.32	0.90				1,484.67	-0.07	0.49					
		12.00	47.61					218.33	100.11					82.00	87.92					1,349.33	607.00					-17.67	28.02					
6334	592.33	0.00	0.88				2,413.67	-0.46	0.52				1,417.33	0.00	0.32				2,570.00	-1.58	0.13				1,573.00	0.27	0.44					
		0.00	60.47					-290.33	60.67					0.00	27.15					-6,715.00	86.75					70.67	25.24					
6335	517.67	-0.70	0.43				3,161.00	0.72	0.46				1,907.00	1.39	0.42				8,739.33	-0.13	0.11				1,544.67	0.16	0.17					
		-74.67	29.74					457.00	54.69					489.67	35.55					-545.67	74.89					42.33	10.02					
6336	613.00	0.19	0.05				2,704.00	0.00	0.05				1,293.00	-0.35	0.04				6,995.33	-0.54	0.03				1,492.00	-0.04	0.30					
		20.67	3.61					0.00	5.57					-124.33	3.61					-2,289.67	23.46					-10.33	17.52					



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6343	540.00	-0.49	0.29	4,640.00	3.03	0.17	2,273.33	2.43	0.14	9,923.33	0.15	0.43	1,598.67	0.37	0.31
		-52.33	20.00		1,936.00	20.00		856.00	11.55		638.33	288.85		96.33	18.04
6353	597.33	0.05	0.19	2,253.00	-0.71	0.72	1,395.00	-0.06	1.16	14,116.67	1.14	0.26	1,587.33	0.32	0.50
		5.00	12.90		-451.00	84.88		-22.33	99.23		4,831.67	172.51		85.00	28.94
Grand Median		592.33		2,704.00			1,417.33			9,285.00			1,502.33		
Median Abs Dev		72.32		430.39			237.89			2,860.19			176.73		
Avg Within Lab SD		68.38		117.68			85.34			672.95			57.52		
Labs Included		15		15			15			15			15		
Labs Reporting		15		15			15			15			15		

Mg Ammonium Acetate (142) in the Bases (1:10) Property Group															
														Data units: mg/kg	
6283	48.67	-0.46	0.90	593.00	0.85	1.49	438.67	1.10	0.63	217.67	-0.43	0.20	415.00	0.19	0.14
		-7.00	3.51		68.00	25.24		83.33	9.29		-15.33	1.53		10.67	2.00
6284	60.00	0.28		525.00	0.00		350.00	-0.07		265.00	0.90		390.00	-0.26	
		4.33			0.00			-5.33			32.00			-14.33	
6289	46.10	-0.63	0.19	476.14	-0.61	1.40	325.05	-0.40	0.85	231.89	-0.03	0.67	356.19	-0.86	1.12
		-9.57	0.75		-48.86	23.73		-30.28	12.51		-1.11	5.12		-48.14	15.70
6291	67.86	0.80	1.47	453.60	-0.89	1.18	385.53	0.40	2.67	209.13	-0.67	3.35	395.60	-0.16	1.04
		12.20	5.75		-71.40	20.04		30.20	39.13		-23.87	25.70		-8.73	14.58
6304	81.33	1.68		530.30	0.07		373.10	0.23		283.10	1.40		466.40	1.11	
		25.66			5.30			17.77			50.10			62.07	
6305	62.64	0.46	0.14	445.58	-0.99	0.15	274.53	-1.07	0.43	224.65	-0.23	0.56	344.16	-1.08	0.14
		6.98	0.56		-79.42	2.58		-80.81	6.24		-8.35	4.31		-60.17	1.92
6306	62.00	0.41	1.84	529.67	0.06	1.67	355.33	0.00	0.93	247.33	0.40	0.40	418.00	0.25	2.84
		6.33	7.21		4.67	28.29		0.00	13.61		14.33	3.06		13.67	39.66
6307	21.33	-2.25	0.15	567.67	0.53	0.52	399.33	0.58	0.40	182.33	-1.42	0.33	404.33	0.00	0.37
		-34.33	0.58		42.67	8.74		44.00	5.86		-50.67	2.52		0.00	5.13
6327	32.82	-1.50	0.38	523.74	-0.02	1.01	379.19	0.31	0.74	198.96	-0.95	0.67	358.67	-0.82	1.12
		-22.85	1.48		-1.26	17.12		23.86	10.83		-34.04	5.14		-45.67	15.69
6330	51.67	-0.26	0.59	505.33	-0.24	1.41	316.00	-0.52	1.41	233.00	0.00	0.26	381.67	-0.41	1.32
		-4.00	2.31		-19.67	23.80		-39.33	20.66		0.00	2.00		-22.67	18.50
6334	55.67	0.00	2.56	508.33	-0.21	1.75	347.00	-0.11	0.62	261.33	0.79	0.53	418.33	0.25	0.50
		0.00	10.02		-16.67	29.69		-8.33	9.17		28.33	4.04		14.00	7.02



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6335	43.67	-0.79	0.64	580.67	0.69	0.28	440.33	1.12	0.48	242.00	0.25	0.47	430.67	0.47	0.18
		-12.00	2.52		55.67	4.73		85.00	7.09		9.00	3.61		26.33	2.52
6336	60.67	0.33	0.39	541.00	0.20	0.43	318.33	-0.49	0.20	240.67	0.21	0.20	411.00	0.12	0.40
		5.00	1.53		16.00	7.21		-37.00	2.89		7.67	1.53		6.67	5.57
6343	56.33	0.04	0.82	741.33	2.69	0.07	550.00	2.57	1.18	278.00	1.26	1.13	537.00	2.38	0.54
		0.67	3.21		216.33	1.15		194.67	17.32		45.00	8.66		132.67	7.55
6353	52.00	-0.24	0.51	358.00	-2.08	0.06	268.33	-1.15	0.98	192.00	-1.15	0.65	306.67	-1.75	0.84
		-3.67	2.00		-167.00	1.00		-87.00	14.36		-41.00	5.00		-97.67	11.72
Grand Median		55.67		525.00			355.33			233.00			404.33		
Median Abs Dev		10.31		54.19			51.13			24.05			37.56		
Avg Within Lab SD		3.91		16.94			14.67			7.68			13.99		
Labs Included		15		15			15			15			15		
Labs Reporting		15		15			15			15			15		

Na Ammonium Acetate (143) in the Bases (1:10) Property Group															
															Data units: mg/kg
6283	10.67	-0.05	0.32	14.00	0.00	2.01	11.33	0.10	0.97	16.67	0.04	0.26	29.00	0.33	1.16
		-0.33	0.58		0.00	3.46		0.67	3.06		0.33	0.58		2.00	2.65
6284	14.00	0.44		14.00	0.00		10.00	-0.10		16.00	-0.04		25.00	-0.33	
		3.00			0.00			-0.67			-0.33			-2.00	
6289	7.17	-0.56	1.07	12.77	-0.21	0.77	7.58	-0.48	1.94	13.74	-0.31	1.70	23.11	-0.64	2.29
		-3.83	1.90		-1.23	1.33		-3.09	6.12		-2.59	3.84		-3.89	5.21
6291	20.67	1.40	1.72	21.17	1.20	1.13	26.19	2.41	1.39	38.63	2.70	2.40	18.34	-1.44	1.21
		9.67	3.06		7.17	1.96		15.52	4.39		22.30	5.42		-8.66	2.76
6305	19.27	1.20	0.94	22.27	1.39	0.05	16.61	0.92	0.75	22.91	0.80	1.32	27.06	0.01	1.16
		8.27	1.67		8.27	0.09		5.95	2.36		6.58	2.97		0.06	2.65
6306	13.67	0.39	1.97	16.33	0.39	1.46	10.00	-0.10	0.84	16.00	-0.04	0.44	30.00	0.50	0.76
		2.67	3.51		2.33	2.52		-0.67	2.65		-0.33	1.00		3.00	1.73
6307	11.00	0.00		13.67	-0.06	0.33	10.67	0.00	0.18	16.33	0.00	0.26	27.67	0.11	0.25
		0.00			-0.33	0.58		0.00	0.58		0.00	0.58		0.67	0.58
6327	6.05	-0.72	0.94	8.04	-1.00	1.08	6.69	-0.62	0.58	9.28	-0.85	0.54	21.05	-0.99	0.74
		-4.95	1.68		-5.96	1.87		-3.98	1.84		-7.06	1.22		-5.95	1.69
6330	9.00	-0.29	0.56	9.00	-0.84	0.58	7.00	-0.57		11.67	-0.56	0.26	20.67	-1.05	0.25
		-2.00	1.00		-5.00	1.00		-3.67			-4.67	0.58		-6.33	0.58



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6334	11.00	0.00	0.97	11.67	-0.39	1.21	10.00	-0.10		15.67	-0.08	0.51	19.67	-1.22	0.67
		0.00	1.73		-2.33	2.08		-0.67			-0.67	1.15		-7.33	1.53
6335	6.67	-0.63	0.65	13.67	-0.06	1.21	14.33	0.57	2.15	16.67	0.04	1.12	27.00	0.00	1.16
		-4.33	1.15		-0.33	2.08		3.67	6.81		0.33	2.52		0.00	2.65
6336	20.67	1.40	0.86	20.00	1.01	0.58	14.00	0.52	0.32	25.00	1.05	0.44	27.67	0.11	0.51
		9.67	1.53		6.00	1.00		3.33	1.00		8.67	1.00		0.67	1.15
6343	22.67	1.69	0.86	27.33	2.24	0.33	25.33	2.27	0.18	35.00	2.26	0.44	39.33	2.04	0.51
		11.67	1.53		13.33	0.58		14.67	0.58		18.67	1.00		12.33	1.15
Grand Median		11.00		14.00			10.67			16.33			27.00		
Median Abs Dev		4.64		4.02			4.35			5.58			4.07		
Avg Within Lab SD		1.78		1.73			3.16			2.25			2.28		
Labs Included		13		13			13			13			13		
Labs Reporting		13		13			13			13			13		

Bray Extractable K (144) in the Bases (1:10) Property Group						Data units: mg/kg	
6304	103.21		163.07		237.61	261.31	424.41
Grand Median	103.21		163.07		237.61	261.31	424.41
Median Abs Dev							
Avg Within Lab SD							
Labs Included	1		1		1	1	1
Labs Reporting	1		1		1	1	1

K- Bicarb. (145) in the Bases (1:10) Property Group						Data units: mg/kg	
6278	80.00		175.67		307.67	286.00	414.00
6291	99.33		139.00		201.00	291.67	375.00



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	89.67			157.33			254.33			288.83			394.50		
Median Abs Dev															
Avg Within Lab SD															
Labs Included	2			2			2			2			2		
Labs Reporting	2			2			2			2			2		

Aluminum KCL Extr. (148) in the Bases (1:10) Property Group															
Data units: mg/kg															
6330	4.67			1.00			1.00			1.00			1.00		
Grand Median	4.67			1.00			1.00			1.00			1.00		
Median Abs Dev															
Avg Within Lab SD															
Labs Included	1			1			1			1			1		
Labs Reporting	1			1			1			1			1		

Scoop Density (155) in the Mehlich-3 Multi-Element Property Group															
Data units: g/cm3															
6288	1.18			1.18			1.18			1.18			1.18		
6289	1.18			0.85			0.73			1.09			0.89		
Grand Median	1.18			1.01			0.96			1.14			1.03		
Median Abs Dev															
Avg Within Lab SD															
Labs Included	2			2			2			2			2		
Labs Reporting	2			2			2			2			2		

P Colorimetric (156) in the Mehlich-3 Multi-Element Property Group																									
Data units: mg/kg																									
6276	20.67			-0.27	0.75	48.67			-0.71	0.10	69.33			-0.11	0.43	22.33			0.00	0.60	53.00			0.00	0.28
				-0.83	0.76				-5.43	0.29				-0.97	2.89				0.00	0.76				0.00	0.50
6288	19.60			-0.63	0.43	49.33			-0.62	0.86	68.00			-0.27	0.26	21.80			-0.22	0.41	48.67			-0.33	0.64
				-1.90	0.44				-4.77	2.57				-2.30	1.73				-0.53	0.52				-4.33	1.15



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD
6306	27.00	1.81	1.97	65.67	1.51	1.84	88.00	2.08	2.03	24.00	0.68	2.07	71.67	1.43	1.96
		5.50	2.00		11.57	5.51		17.70	13.45		1.67	2.65		18.67	3.51
6322	23.50	0.66		58.17	0.53	0.10	78.00	0.91	0.23	28.00	2.30		59.83	0.52	0.16
		2.00			4.07	0.29		7.70	1.50		5.67			6.83	0.29
6353	21.50	0.00	0.60	54.10	0.00	0.92	70.30	0.00	0.76	21.90	-0.18	0.44	38.67	-1.09	0.81
		0.00	0.61		0.00	2.75		0.00	5.07		-0.43	0.56		-14.33	1.46
Grand Median		21.50		54.10		70.30		22.33		53.00					
Median Abs Dev		2.05		5.17		5.73		1.66		8.83					
Avg Within Lab SD		1.01		2.99		6.64		1.28		1.80					
Labs Included		5		5		5		5		5					
Labs Reporting		5		5		5		5		5					

P ICP-AES (157) in the Mehlich-3 Multi-Element Property Group															
															Data units: mg/kg
6276	34.83	-0.68	1.41	54.00	-0.74	0.50	73.17	-0.97	1.42	20.17	-0.16	0.17	50.33	0.16	1.76
		-3.81	2.75		-5.28	1.80		-9.14	5.53		-0.92	0.29		1.50	3.33
6284	45.00	1.13	1.02	74.00	2.05	2.10	96.00	1.45	1.34	26.67	0.98	1.91	57.33	0.91	0.31
		6.36	2.00		14.72	7.55		13.70	5.20		5.58	3.21		8.50	0.58
6289	40.57	0.34	0.48	59.94	0.09	0.62	81.25	-0.11	0.90	24.29	0.56	0.51	47.34	-0.16	0.40
		1.93	0.93		0.66	2.23		-1.06	3.51		3.20	0.86		-1.50	0.75
6333	40.00	0.24		65.00	0.80		89.00	0.71		22.00	0.16		55.00	0.66	
		1.36			5.72			6.70			0.92			6.16	
6336	30.67	-1.42	0.78	57.33	-0.27	0.70	75.67	-0.70	1.16	14.33	-1.18	1.23	41.67	-0.77	1.33
		-7.98	1.53		-1.95	2.52		-6.64	4.51		-6.75	2.08		-7.17	2.52
6353	37.28	-0.24	1.46	58.62	-0.09	0.67	83.36	0.11	0.20	15.29	-1.01	0.74	35.77	-1.40	0.93
		-1.36	2.86		-0.66	2.42		1.06	0.77		-5.80	1.25		-13.07	1.76
Grand Median		38.64		59.28		82.30		21.08		48.84					
Median Abs Dev		3.80		4.83		6.38		3.86		6.32					
Avg Within Lab SD		1.96		3.59		3.89		1.69		1.89					
Labs Included		6		6		6		6		6				6	
Labs Reporting		6		6		6		6		6				6	

K (158) in the Mehlich-3 Multi-Element Property Group															
															Data units: mg/kg



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6276	100.67	-0.80	0.50	192.17	-1.19	0.15	216.00	-1.14	1.03	515.17	-0.42	1.32	423.50	-1.04	0.95
		-12.50	4.73		-35.15	2.08		-31.60	13.11		-33.39	16.81		-78.63	25.36
6284	130.67	1.13	0.62	286.33	2.00	2.65	306.00	2.10	1.08	561.33	0.16	2.19	562.33	0.80	2.16
		17.50	5.86		59.01	36.83		58.40	13.75		12.78	28.01		60.21	57.88
6288	101.67	-0.74	0.22	211.33	-0.54	0.22	228.67	-0.68	0.40	541.33	-0.09	0.16	439.67	-0.83	0.19
		-11.50	2.08		-15.99	3.06		-18.93	5.13		-7.23	2.08		-62.46	5.13
6289	132.50	1.24	2.66	232.31	0.17	0.77	251.29	0.13	1.17	555.78	0.09	0.56	489.25	-0.17	0.76
		19.33	25.21		4.99	10.77		3.69	14.98		7.23	7.09		-12.88	20.35
6322	116.33	0.20	0.03	232.83	0.19	0.09	244.50	-0.11	1.34	817.00	3.35	0.62	601.83	1.32	1.32
		3.17	0.29		5.51	1.26		-3.10	17.04		268.44	7.86		99.71	35.53
6333	110.00	-0.20		235.00	0.26		267.00	0.70		575.00	0.33		518.00	0.21	
		-3.17			7.68			19.40			26.44			15.88	
6336	117.00	0.25	0.32	222.33	-0.17	0.54	236.00	-0.42	0.57	509.00	-0.49	0.62	515.00	0.17	0.21
		3.83	3.00		-4.99	7.51		-11.60	7.21		-39.56	7.94		12.88	5.57
6353	100.23	-0.83	0.36	201.70	-0.87	0.15	250.70	0.11	1.46	510.73	-0.47	0.60	437.87	-0.85	0.21
		-12.93	3.40		-25.62	2.11		3.10	18.62		-37.83	7.70		-64.26	5.54
Grand Median		113.17			227.32			247.60			548.56			502.13	
Median Abs Dev		10.49			19.87			18.73			54.11			50.86	
Avg Within Lab SD		9.47			13.91			12.75			12.77			26.83	
Labs Included		8			8			8			8			8	
Labs Reporting		8			8			8			8			8	

Ca (159) in the Mehlich-3 Multi-Element Property Group															
															Data units: mg/kg
6276	563.17	-1.68	1.08	2,464.17	-1.25	0.56	1,332.00	-1.51	1.67	19,173.33	0.27	0.95	1,342.50	-1.27	1.53
		-122.83	33.86		-404.56	57.59		-325.00	109.39		1,457.63	1,049.23		-248.50	94.47
6284	742.67	0.78	1.89	3,675.00	2.48	2.17	1,964.67	1.43	0.74	22,580.00	0.90	0.99	1,846.67	1.30	2.05
		56.67	59.00		806.28	224.89		307.67	48.43		4,864.30	1,092.34		255.67	126.62
6288	606.67	-1.09	0.16	2,798.33	-0.22	0.28	1,552.00	-0.49	0.40	8,121.67	-1.78	0.10	1,567.00	-0.12	0.14
		-79.33	4.93		-70.39	29.37		-105.00	26.51		-9,594.03	108.04		-24.00	8.54
6289	668.54	-0.24	1.94	2,868.72	0.00	1.19	1,523.13	-0.62	1.24	17,715.70	0.00	0.65	1,470.36	-0.61	1.18
		-17.46	60.54		0.00	123.10		-133.87	81.76		0.00	714.91		-120.64	73.10
6304	686.00	0.00		2,784.00	-0.26		1,548.00	-0.51		16,570.00	-0.21		1,591.00	0.00	
		0.00			-84.72			-109.00			-1,145.70			0.00	



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6322	655.00	-0.42	0.42	3,121.67	0.78	1.21	1,886.67	1.06	0.69	20,966.67	0.60	2.58	1,571.67	-0.10	0.12
		-31.00	13.23		252.94	125.03		229.67	45.37		3,250.97	2,862.57		-19.33	7.64
6333	705.00	0.26		3,053.00	0.57		1,711.00	0.25		18,820.00	0.20		1,646.00	0.28	
		19.00			184.28			54.00			1,104.30			55.00	
6336	759.33	1.01	0.21	2,919.00	0.15	0.20	1,657.00	0.00	0.31	6,882.67	-2.01	0.02	1,714.00	0.63	0.83
		73.33	6.66		50.28	20.81		0.00	20.42		-10,833.03	24.38		123.00	51.22
6353	729.27	0.59	0.50	2,750.33	-0.36	1.00	1,702.67	0.21	1.84	17,232.33	-0.09	0.19	1,937.33	1.76	0.57
		43.27	15.66		-118.39	103.65		45.67	121.06		-483.37	210.65		346.33	35.02
Grand Median		686.00			2,868.72			1,657.00			17,715.70			1,591.00	
Median Abs Dev		49.21			219.09			145.54			3,637.04			132.50	
Avg Within Lab SD		31.24			103.66			65.68			1,108.36			61.72	
Labs Included		9			9			9			9			9	
Labs Reporting		9			9			9			9			9	

Mg (160) in the Mehlich-3 Multi-Element Property Group															
															Data units: mg/kg
6276	56.67	-0.79	0.55	443.00	-1.04	0.29	297.00	-1.27	1.53	240.17	-1.05	0.62	370.83	-1.56	1.41
		-8.44	1.76		-87.40	6.38		-61.13	20.86		-40.55	4.62		-69.83	21.51
6284	69.00	0.36	1.65	691.67	1.92	2.69	453.33	1.98	1.18	299.67	0.49	2.00	499.00	1.31	2.07
		3.90	5.29		161.27	59.65		95.20	16.07		18.95	15.04		58.33	31.43
6288	52.17	-1.21	0.09	483.33	-0.56	0.47	338.67	-0.40	0.59	255.67	-0.65	0.73	422.67	-0.40	0.48
		-12.94	0.29		-47.07	10.50		-19.46	8.08		-25.05	5.51		-18.00	7.37
6289	65.10	0.00	1.90	545.68	0.18	1.14	358.13	0.00	1.55	280.72	0.00	0.53	436.02	-0.10	1.15
		0.00	6.09		15.28	25.31		0.00	21.05		0.00	3.97		-4.64	17.49
6304	81.40	1.52		530.40	0.00		373.20	0.31		283.20	0.06		466.50	0.58	
		16.30			0.00			15.07			2.48			25.83	
6322	68.17	0.29	0.80	572.33	0.50	0.35	371.83	0.28	0.82	328.67	1.24	1.00	444.17	0.08	0.30
		3.06	2.57		41.93	7.77		13.70	11.15		47.95	7.51		3.50	4.62
6333	83.00	1.67		571.00	0.48		394.00	0.74		303.00	0.58		474.00	0.75	
		17.90			40.60			35.87			22.28			33.33	
6336	63.00	-0.20	1.12	497.67	-0.39	0.11	329.00	-0.60	0.39	244.00	-0.95	1.44	440.67	0.00	0.36
		-2.10	3.61		-32.73	2.52		-29.13	5.29		-36.72	10.82		0.00	5.51
6353	64.80	-0.03	0.67	446.97	-0.99	0.05	335.37	-0.47	1.30	239.53	-1.06	0.85	383.13	-1.29	0.97
		-0.30	2.15		-83.43	1.15		-22.76	17.68		-41.18	6.35		-57.53	14.76



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	65.10			530.40			358.13			280.72			440.67		
Median Abs Dev	7.21			56.64			32.48			26.13			30.11		
Avg Within Lab SD	3.21			22.16			13.61			7.51			15.20		
Labs Included	9			9			9			9			9		
Labs Reporting	9			9			9			9			9		

Na (161)		in the Mehlich-3 Multi-Element Property Group										Data units: mg/kg											
6284	18.00	19.33	15.33	21.33	31.67	6289	28.52	31.87	31.72	39.94	35.37	6336	33.43	31.47	21.70	28.90	33.23	6353	15.00	14.63	12.87	20.17	30.27
Grand Median	23.26		25.40		18.52		25.12		32.45														
Median Abs Dev																							
Avg Within Lab SD																							
Labs Included	4		4		4		4		4														
Labs Reporting	4		4		4		4		4														

S (162)		in the Mehlich-3 Multi-Element Property Group										Data units: mg/kg			
6284	17.33	0.88	1.14	20.33	0.23	1.29	15.00	0.41	1.54	19.33	0.01	0.77	18.00	0.49	2.38
		2.43	1.15		2.71	1.53		2.70	1.73		0.45	1.53		5.17	8.54
6289	14.97	0.02	0.00	14.91	-0.23	0.31	9.61	-0.41	0.87	16.61	-0.05	0.89	7.67	-0.49	0.16
		0.07	0.00		-2.71	0.37		-2.70	0.97		-2.27	1.77		-5.17	0.57
6304	16.63	0.63		38.07	1.74		21.80	1.44		178.30	3.23		22.02	0.86	
		1.73			20.45			9.50			159.42			9.19	
6333	10.00	-1.78		12.00	-0.48		8.00	-0.65		13.00	-0.12		6.00	-0.64	
		-4.90			-5.62			-4.31			-5.88			-6.83	
6336	12.93	-0.71	0.89	12.93	-0.40	0.34	8.90	-0.52	0.24	18.43	-0.01	0.30	7.10	-0.54	0.16
		-1.97	0.90		-4.69	0.40		-3.41	0.26		-0.45	0.59		-5.73	0.56



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6353	14.83	-0.02	1.98	28.87	0.96	2.03	16.47	0.63	1.67	50.43	0.64	2.12	23.80	1.03	0.52
		-0.07	2.01		11.25	2.40		4.16	1.88		31.55	4.20		10.97	1.85
Grand Median		14.90			17.62			12.31			18.88			12.83	
Median Abs Dev		1.86			7.91			4.46			33.34			7.18	
Avg Within Lab SD		1.02			1.18			1.12			1.98			3.58	
Labs Included		6			6			6			6			6	
Labs Reporting		6			6			6			6			6	

Al (163) in the Mehlich-3 Multi-Element Property Group															
															Data units: mg/kg
6284	552.00			706.33			515.67			260.67			476.33		
6289	504.52			606.83			449.88			226.21			426.75		
6336	528.67			628.33			505.33			293.67			454.33		
Grand Median		528.67			628.33			505.33			260.67			454.33	
Median Abs Dev															
Avg Within Lab SD															
Labs Included		3		3			3			3			3		
Labs Reporting		3		3			3			3			3		

Zn (164) in the Mehlich-3 Multi-Element Property Group															
															Data units: mg/kg
6284	2.27	1.02	1.22	2.50	1.37	2.32	3.07	1.54	1.30	3.13	0.34	0.87	3.70	0.80	1.08
		0.49	0.06		0.37	0.30		0.61	0.12		0.19	0.12		0.27	0.20
6289	1.95	0.36	0.00	2.01	-0.44	0.60	2.44	-0.03	1.42	2.89	-0.10	1.48	3.29	-0.43	0.73
		0.18	0.00		-0.12	0.08		-0.01	0.13		-0.06	0.20		-0.14	0.13
6304	1.27	-1.06		1.98	-0.57		2.05	-1.02		2.70	-0.44		3.58	0.43	
		-0.51			-0.15			-0.41			-0.24			0.14	
6333	2.10	0.68		2.30	0.62		2.90	1.12		3.00	0.10		3.70	0.80	
		0.33			0.17			0.45			0.06			0.27	
6336	1.60	-0.36	2.11	1.97	-0.61	0.45	2.33	-0.30	0.65	2.50	-0.80		3.23	-0.59	0.83
		-0.18	0.10		-0.17	0.06		-0.12	0.06		-0.44			-0.20	0.15



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6353	1.50	-0.56	0.24	2.25	0.44	0.20	2.47	0.03	1.37	4.20	2.26	1.75	3.10	-1.00	1.90
		-0.27	0.01		0.12	0.03		0.01	0.12		1.25	0.23		-0.33	0.35
Grand Median		1.78		2.13			2.45			2.94			3.43		
Median Abs Dev		0.32		0.18			0.27			0.37			0.23		
Avg Within Lab SD		0.05		0.13			0.09			0.13			0.18		
Labs Included		6		6			6			6			6		
Labs Reporting		6		6			6			6			6		

Mn (165) in the Mehlich-3 Multi-Element Property Group															
														Data units: mg/kg	
6284	7.67	1.57	1.53	34.33	2.06	2.23	127.67	0.14	2.22	65.67	-0.79	2.07	57.33	-0.04	1.97
		1.80	2.08		6.68	3.51		2.30	19.86		-10.02	9.02		-0.33	6.51
6289	6.64	0.68	1.88	26.73	-0.28	0.75	108.46	-1.02	0.59	79.27	0.28	0.64	51.68	-0.76	0.60
		0.78	2.56		-0.92	1.18		-16.90	5.32		3.59	2.79		-5.99	1.99
6304	4.93	-0.82		27.30	-0.11		143.30	1.09		90.43	1.16		69.28	1.48	
		-0.94			-0.35			17.93			14.75			11.61	
6333	5.00	-0.75		28.00	0.11		130.00	0.28		77.00	0.10		58.00	0.04	
		-0.87			0.35			4.63			1.32			0.33	
6336	6.00	0.12	0.07	29.13	0.46	0.64	123.07	-0.14	0.52	74.37	-0.10	1.05	63.80	0.78	1.00
		0.13	0.10		1.48	1.01		-2.30	4.69		-1.32	4.56		6.13	3.30
6353	5.73	-0.12	0.35	24.33	-1.02	0.20	102.60	-1.38	0.68	55.30	-1.61	0.48	50.37	-0.93	0.87
		-0.13	0.47		-3.32	0.32		-22.77	6.10		-20.38	2.08		-7.30	2.86
Grand Median		5.87		27.65			125.37			75.68			57.67		
Median Abs Dev		0.77		2.18			11.14			8.56			5.28		
Avg Within Lab SD		1.36		1.57			8.96			4.36			3.30		
Labs Included		6		6			6			6			6		
Labs Reporting		6		6			6			6			6		

Fe (166) in the Mehlich-3 Multi-Element Property Group															
														Data units: mg/kg	
6284	86.00	0.00	2.12	178.67	0.21	2.06	212.00	-0.16	1.97	39.67	0.00	0.89	89.67	-0.17	1.57
		0.00	8.54		13.93	17.01		-4.47	23.30		0.00	1.53		-4.20	8.50
6289	78.83	-0.77	0.22	154.72	-0.15	0.38	195.63	-0.75	0.56	40.01	0.09	1.23	82.79	-0.46	0.34
		-7.17	0.90		-10.02	3.15		-20.84	6.63		0.34	2.11		-11.07	1.83



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6304	92.85	0.74		215.00	0.76		256.60	1.45		39.63	-0.01		143.00	2.04	
		6.85			50.27			40.13			-0.04			49.13	
6336	95.67	1.04	0.29	16.90	-2.25	0.18	244.33	1.01	0.47	50.67	2.88	0.89	110.67	0.70	0.83
		9.67	1.15		-147.83	1.51		27.87	5.51		11.00	1.53		16.80	4.51
6353	78.30	-0.83	0.62	164.73	0.00	0.75	216.47	0.00	0.76	38.17	-0.39	1.38	93.87	0.00	1.31
		-7.70	2.50		0.00	6.17		0.00	8.92		-1.50	2.36		0.00	7.10
Grand Median		86.00		164.73			216.47			39.67			93.87		
Median Abs Dev		6.28		44.41			18.66			2.58			16.24		
Avg Within Lab SD		4.03		8.24			11.81			1.71			5.41		
Labs Included		5		5			5			5			5		
Labs Reporting		5		5			5			5			5		

Cu (167) in the Mehlich-3 Multi-Element Property Group															
															Data units: mg/kg
6284	0.37	-0.06	2.22	3.23	0.64	1.75	9.73	1.34	0.85	1.30	0.21	1.55	2.03	-0.13	0.78
		-0.01	0.15		0.25	0.15		1.06	0.23		0.05	0.10		-0.03	0.06
6289	0.90	3.27	0.97	3.26	0.71	1.26	8.69	0.02	1.50	1.91	2.62	0.71	2.32	0.96	0.27
		0.52	0.07		0.28	0.11		0.02	0.41		0.66	0.05		0.25	0.02
6304	0.39	0.06		3.07	0.21		8.66	-0.02		1.29	0.18		2.20	0.52	
		0.01			0.08			-0.02			0.05			0.14	
6333	0.35	-0.17		2.90	-0.21		9.00	0.41		1.20	-0.18		2.10	0.13	
		-0.03			-0.08			0.33			-0.05			0.03	
6336	0.39	0.06	0.34	2.60	-0.97	1.15	7.20	-1.85	0.73	1.10	-0.58	1.55	1.67	-1.52	2.05
		0.01	0.02		-0.38	0.10		-1.47	0.20		-0.15	0.10		-0.40	0.15
6353	0.31	-0.42	0.15	2.47	-1.30	0.11	8.35	-0.40	1.57	1.18	-0.28	0.85	1.86	-0.80	1.05
		-0.07	0.01		-0.51	0.01		-0.32	0.43		-0.07	0.06		-0.21	0.08
Grand Median		0.38		2.98			8.67			1.25			2.07		
Median Abs Dev		0.11		0.27			0.54			0.17			0.18		
Avg Within Lab SD		0.07		0.09			0.27			0.06			0.07		
Labs Included		6		6			6			6			6		
Labs Reporting		6		6			6			6			6		

B (168) in the Mehlich-3 Multi-Element Property Group															
															Data units: mg/kg



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6284	0.20	0.04	0.00	0.97	0.74	2.18	0.63	0.29	1.40	1.83	0.95	2.07	0.83	0.70	1.51
		0.00	0.00		0.26	0.12		0.13	0.06		0.35	0.21		0.17	0.06
6289	0.19	-0.08	2.20	0.72	0.03	0.85	0.40	-0.22	1.69	1.46	-0.07	1.07	0.61	-0.20	0.78
		-0.01	0.10		0.01	0.05		-0.10	0.07		-0.03	0.11		-0.05	0.03
6304	0.35	1.87		1.69	2.86		1.77	2.76		0.89	-1.62		1.17	2.05	
		0.15			0.98			1.27			-0.60			0.51	
6333				0.70	-0.03					1.60	0.32		0.70	0.16	
					-0.01						0.12			0.04	
6336	0.20	0.00	0.13	0.60	-0.32	0.29	0.45	-0.11	0.42	1.11	-1.01	0.40	0.47	-0.78	0.99
		0.00	0.01		-0.11	0.02		-0.05	0.02		-0.37	0.04		-0.19	0.04
6353	0.09	-1.38	0.35	0.69	-0.06	0.65	0.50	0.00		1.51	0.07	0.65	0.62	-0.16	1.46
		-0.11	0.02		-0.02	0.03		0.00			0.03	0.07		-0.04	0.06
Grand Median		0.20			0.71			0.50			1.48			0.66	
Median Abs Dev		0.05			0.23			0.31			0.25			0.17	
Avg Within Lab SD		0.04			0.05			0.04			0.10			0.04	
Labs Included		5			6			5			6			6	
Labs Reporting		5			6			5			6			6	

Zn - DTPA (169) in the Micronutrients Property Group															
															Data units: mg/kg
6276	1.06	0.22	1.13	0.91	-0.83	0.61	0.90	-1.19	0.54	1.34	0.05	0.61	0.61	-0.51	0.47
		0.04	0.10		-0.12	0.06		-0.20	0.07		0.01	0.06		-0.11	0.04
6278	0.70	-1.59	0.00	1.00	-0.18		1.10	0.00	0.00	1.40	0.30	0.00	0.70	-0.09	0.00
		-0.32	0.00		-0.03			0.00	0.00		0.07	0.00		-0.02	0.00
6283	1.02	0.00	0.86	1.13	0.71	0.75	1.25	0.91	0.92	1.32	-0.05	0.23	0.73	0.06	1.19
		0.00	0.08		0.10	0.07		0.15	0.12		-0.01	0.02		0.01	0.10
6288	0.96	-0.32	0.43	0.99	-0.25	0.47	0.96	-0.83	0.31	1.59	1.16	0.78	0.64	-0.34	0.07
		-0.06	0.04		-0.04	0.04		-0.14	0.04		0.26	0.07		-0.08	0.01
6291	1.07	0.23	1.79	1.08	0.34	1.68	1.27	1.03	1.92	1.41	0.33	2.64	0.87	0.69	2.28
		0.05	0.16		0.05	0.16		0.17	0.25		0.07	0.24		0.15	0.20
6305	1.05	0.13	0.13	1.02	-0.02	0.13	0.96	-0.85	0.05	1.42	0.41	0.11	0.57	-0.69	0.17
		0.03	0.01		0.00	0.01		-0.14	0.01		0.09	0.01		-0.15	0.02
6306	1.11	0.46	1.67	1.11	0.57	2.08	1.08	-0.10	1.62	1.51	0.80	1.50	0.72	0.00	1.58
		0.09	0.15		0.08	0.19		-0.02	0.21		0.18	0.14		0.00	0.14



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6307	0.79	-1.16	0.24	1.03	0.00	0.59	1.15	0.30	0.67	1.22	-0.50	0.42	0.93	0.96	0.24
		-0.23	0.02		0.00	0.06		0.05	0.09		-0.11	0.04		0.21	0.02
6327	0.86	-0.78	0.73	0.92	-0.73	0.30	1.16	0.37	1.21	1.20	-0.60	0.96	0.65	-0.32	1.05
		-0.16	0.06		-0.11	0.03		0.06	0.16		-0.13	0.09		-0.07	0.09
6330	1.17	0.73	0.66	1.07	0.28	1.63	1.17	0.40	1.94	1.33	0.00	0.64	0.73	0.06	1.35
		0.15	0.06		0.04	0.15		0.07	0.25		0.00	0.06		0.01	0.12
6334	0.93	-0.43	1.44	0.91	-0.78	1.11	0.87	-1.36	0.71	0.85	-2.17	0.94	1.25	2.38	0.82
		-0.09	0.13		-0.11	0.10		-0.23	0.09		-0.48	0.09		0.53	0.07
6335	0.93	-0.45	0.41	1.08	0.34	0.63	1.16	0.36	0.95	1.20	-0.59	0.78	0.68	-0.18	0.42
		-0.09	0.04		0.05	0.06		0.06	0.12		-0.13	0.07		-0.04	0.04
6336	1.17	0.73	0.66	1.13	0.74	1.24	1.07	-0.20	0.44	1.20	-0.60	1.11	1.00	1.25	1.17
		0.15	0.06		0.11	0.12		-0.03	0.06		-0.13	0.10		0.28	0.10
6343	0.75	-1.33	0.07	0.84	-1.31	0.16	0.96	-0.85	0.04	1.20	-0.62	0.28	0.49	-1.05	0.18
		-0.27	0.01		-0.19	0.02		-0.14	0.01		-0.14	0.03		-0.23	0.02
6353	1.33	1.56	1.75	1.47	3.03	0.62	1.33	1.38	0.44	1.77	1.96	0.64	1.07	1.55	0.67
		0.31	0.15		0.44	0.06		0.23	0.06		0.43	0.06		0.35	0.06
Grand Median		1.02			1.03			1.10			1.33			0.72	
Median Abs Dev		0.14			0.10			0.11			0.15			0.15	
Avg Within Lab SD		0.09			0.09			0.13			0.09			0.09	
Labs Included		15			15			15			15			15	
Labs Reporting		15			15			15			15			15	

Mn - DTPA (170) in the Micronutrients Property Group															
Data units: mg/kg															
6276	3.67	0.39	0.59	22.17	-0.68	0.40	12.68	-0.51	2.11	10.91	-0.28	1.27	0.71	-0.74	0.47
		0.42	0.19		-3.17	0.58		-2.32	3.78		-0.97	1.08		-0.58	0.15
6278	3.13	-0.12	0.18	27.53	0.47	0.10	19.20	0.93	0.10	14.23	0.68	0.07	1.30	0.01	0.00
		-0.12	0.06		2.20	0.15		4.20	0.17		2.36	0.06		0.00	0.00
6283	2.90	-0.34	0.32	24.80	-0.11	1.22	13.67	-0.30	0.34	9.49	-0.69	0.21	0.72	-0.73	0.71
		-0.36	0.10		-0.53	1.78		-1.34	0.61		-2.38	0.18		-0.58	0.23
6288	4.07	0.77	0.24	26.23	0.19	0.41	19.14	0.91	0.34	16.17	1.24	0.41	1.60	0.39	0.62
		0.82	0.08		0.89	0.59		4.13	0.61		4.29	0.35		0.30	0.20
6291	3.26	0.00	1.30	20.52	-1.03	1.01	15.00	0.00	0.55	10.76	-0.32	1.79	1.30	0.00	0.98
		0.00	0.41		-4.81	1.48		0.00	0.98		-1.12	1.54		0.00	0.32



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6305	4.99	1.63	0.39	30.70	1.15	1.05	14.03	-0.21	0.23	11.59	-0.08	0.55	0.62	-0.85	0.10
		1.73	0.12		5.37	1.54		-0.97	0.41		-0.28	0.47		-0.67	0.03
6306	4.83	1.48	2.05	30.83	1.17	1.83	21.17	1.36	1.26	17.47	1.62	0.59	1.77	0.60	2.11
		1.58	0.64		5.50	2.66		6.16	2.25		5.59	0.50		0.47	0.68
6307	2.45	-0.76	0.14	17.95	-1.58	0.59	13.47	-0.34	0.54	8.84	-0.88	0.19	1.82	0.67	0.05
		-0.81	0.04		-7.38	0.86		-1.53	0.96		-3.04	0.16		0.53	0.02
6327	2.95	-0.29	0.37	25.50	0.03	0.55	19.36	0.96	0.95	11.88	0.00	1.43	0.98	-0.40	0.52
		-0.31	0.12		0.16	0.81		4.36	1.69		0.00	1.23		-0.32	0.17
6330	4.73	1.39	2.58	25.33	0.00	1.68	16.10	0.24	1.65	13.77	0.55	1.52	2.40	1.40	2.78
		1.48	0.81		0.00	2.46		1.10	2.95		1.89	1.31		1.10	0.90
6334	3.50	0.22	0.62	24.00	-0.29	1.29	13.31	-0.37	0.31	13.40	0.44	0.05	1.58	0.36	0.15
		0.24	0.20		-1.34	1.88		-1.69	0.55		1.52	0.05		0.28	0.05
6335	2.73	-0.49	0.49	26.97	0.35	0.69	20.90	1.30	1.72	14.00	0.62	1.26	1.07	-0.29	0.47
		-0.52	0.15		1.63	1.01		5.90	3.08		2.12	1.08		-0.23	0.15
6336	4.40	1.07	0.32	31.00	1.21	1.37	21.33	1.40	1.16	17.50	1.63	1.75	3.40	2.67	0.31
		1.14	0.10		5.67	2.00		6.33	2.08		5.62	1.50		2.10	0.10
6343	3.03	-0.21	0.18	22.67	-0.57	0.17	12.80	-0.49	0.15	9.93	-0.56	0.44	0.73	-0.71	0.18
		-0.22	0.06		-2.67	0.25		-2.20	0.26		-1.94	0.38		-0.56	0.06
6353	2.23	-0.96	0.92	19.23	-1.30	0.42	11.43	-0.79	0.23	10.10	-0.52	0.23	1.05	-0.32	0.29
		-1.02	0.29		-6.10	0.61		-3.57	0.40		-1.78	0.20		-0.25	0.09
Grand Median		3.26			25.33			15.00			11.88			1.30	
Median Abs Dev		0.72			3.16			3.05			2.33			0.53	
Avg Within Lab SD		0.31			1.46			1.79			0.86			0.32	
Labs Included		15			15			15			15			15	
Labs Reporting		15			15			15			15			15	

Fe - DTPA (171) in the Micronutrients Property Group															
															Data units: mg/kg
6276	29.00	-0.09	0.84	40.87	-0.58	0.76	30.03	-1.07	0.53	6.73	-0.23	0.68	2.83	-1.07	0.28
		-0.83	3.00		-8.37	3.50		-10.67	2.58		-0.57	0.42		-1.37	0.21
6278	15.00	-1.68		33.33	-1.11	0.13	28.00	-1.27		10.00	1.11		4.00	-0.16	
		-14.83			-15.90	0.58		-12.70			2.70			-0.20	
6283	29.67	-0.02	0.71	52.50	0.23	1.18	42.27	0.16	1.00	6.75	-0.23	0.28	4.20	0.00	1.42
		-0.16	2.52		3.27	5.41		1.57	4.82		-0.55	0.17		0.00	1.06



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6288	29.83	0.00	0.55	49.73	0.03	0.17	40.62	-0.01	0.42	9.74	1.00	0.56	4.38	0.14	0.35
		0.00	1.94		0.50	0.78		-0.08	2.03		2.44	0.35		0.18	0.27
6291	25.89	-0.45	0.76	44.59	-0.32	1.04	41.30	0.06	1.12	7.30	0.00	1.36	4.49	0.22	0.95
		-3.94	2.72		-4.64	4.80		0.60	5.41		0.00	0.84		0.28	0.71
6305	33.95	0.47	0.68	49.26	0.00	0.29	38.34	-0.24	0.08	8.42	0.46	0.11	3.27	-0.72	0.06
		4.12	2.43		0.03	1.31		-2.36	0.38		1.12	0.07		-0.93	0.05
6306	36.57	0.76	2.00	54.87	0.39	1.88	42.93	0.22	1.91	9.67	0.97	1.95	4.23	0.02	2.48
		6.74	7.12		5.63	8.65		2.23	9.21		2.37	1.20		0.03	1.86
6307	18.63	-1.27	0.07	39.41	-0.68	0.40	31.67	-0.90	0.41	8.95	0.68	0.77	7.17	2.31	0.13
		-11.20	0.25		-9.83	1.82		-9.03	1.98		1.65	0.48		2.97	0.10
6327	30.16	0.04	0.93	43.32	-0.41	1.00	43.69	0.30	1.41	6.42	-0.36	0.87	3.23	-0.76	0.28
		0.33	3.31		-5.91	4.58		2.99	6.82		-0.88	0.54		-0.98	0.21
6330	33.83	0.45	2.14	49.23	0.00	2.20	40.70	0.00	2.19	7.80	0.20	1.06	6.20	1.55	2.19
		4.00	7.62		0.00	10.08		0.00	10.59		0.50	0.66		2.00	1.64
6334	24.75	-0.58	0.72	34.96	-0.99	0.50	31.32	-0.94	0.04	6.16	-0.47	0.32	3.00	-0.94	0.05
		-5.08	2.56		-14.28	2.27		-9.38	0.20		-1.14	0.20		-1.20	0.04
6335	47.70	2.03	0.98	69.47	1.41	1.10	68.80	2.81	1.12	6.33	-0.40	1.24	4.23	0.02	0.56
		17.87	3.48		20.23	5.05		28.10	5.40		-0.97	0.76		0.03	0.42
6336	31.23	0.16	0.47	53.40	0.29	0.47	42.33	0.16	0.52	7.17	-0.06	0.41	5.20	0.78	0.27
		1.40	1.66		4.17	2.16		1.63	2.52		-0.13	0.25		1.00	0.20
6343	22.70	-0.81	0.27	29.27	-1.39	0.06	28.07	-1.27	0.04	4.70	-1.07	0.28	2.40	-1.40	0.13
		-7.13	0.96		-19.97	0.29		-12.63	0.21		-2.60	0.17		-1.80	0.10
6353	41.37	1.31	1.11	81.70	2.26	0.78	47.77	0.71	0.38	14.33	2.89	2.03	4.17	-0.03	0.66
		11.54	3.94		32.47	3.60		7.07	1.83		7.03	1.25		-0.04	0.49
Grand Median		29.83		49.23			40.70			7.30			4.20		
Median Abs Dev		5.94		9.68			6.74			1.64			0.87		
Avg Within Lab SD		3.56		4.59			4.83			0.62			0.75		
Labs Included		15		15			15			15			15		
Labs Reporting		15		15			15			15			15		

Cu - DTPA (172)

in the Micronutrients Property Group

Data units: mg/kg

6276	0.18	0.82	1.59	1.02	-0.22	0.88	3.13	-0.86	0.70	0.61	-0.19	0.40	0.45	-0.11	0.36
		0.05	0.06		-0.05	0.08		-0.67	0.26		-0.03	0.02		-0.02	0.02



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6278	0.10	-0.36	0.00	1.07	0.00	0.61	3.57	-0.30	0.16	0.63	0.00	1.10	0.40	-0.46	0.00
		-0.02	0.00		0.00	0.06		-0.23	0.06		0.00	0.06		-0.07	0.00
6283	0.19	1.07	1.32	1.29	0.99	1.07	4.56	0.97	1.39	0.64	0.05	0.33	0.59	0.79	1.63
		0.07	0.05		0.22	0.10		0.76	0.52		0.01	0.02		0.12	0.10
6288	0.12	0.00	0.70	1.14	0.31	0.43	3.68	-0.15	0.30	0.73	0.72	2.90	0.53	0.42	0.99
		0.00	0.03		0.07	0.04		-0.12	0.11		0.10	0.15		0.06	0.06
6291	0.21	1.38	1.06	0.93	-0.62	0.15	3.90	0.13	0.99	0.80	1.17	1.14	0.53	0.40	0.42
		0.09	0.04		-0.14	0.01		0.10	0.37		0.16	0.06		0.06	0.02
6305	0.16	0.57	0.06	1.07	0.00	0.41	2.86	-1.20	0.06	1.04	2.91	0.17	0.47	0.00	0.30
		0.04	0.00		0.00	0.04		-0.94	0.02		0.40	0.01		0.00	0.02
6306	0.10	-0.41	1.91	1.19	0.55	1.92	3.95	0.19	2.03	0.79	1.13	0.83	0.51	0.27	2.48
		-0.03	0.07		0.12	0.18		0.15	0.76		0.16	0.04		0.04	0.15
6307	0.11	-0.20	0.28	1.25	0.82	0.38	4.27	0.60	0.95	0.62	-0.10	0.19	0.80	2.20	0.55
		-0.01	0.01		0.18	0.04		0.47	0.35		-0.01	0.01		0.33	0.03
6327	0.07	-0.80	0.23	1.02	-0.19	0.50	4.46	0.84	0.45	0.55	-0.60	0.68	0.41	-0.38	0.47
		-0.05	0.01		-0.04	0.05		0.66	0.17		-0.08	0.04		-0.06	0.03
6330	0.13	0.15	1.62	1.17	0.45	2.65	3.93	0.17	2.32	0.53	-0.72	1.10	0.53	0.42	1.97
		0.01	0.06		0.10	0.25		0.13	0.86		-0.10	0.06		0.06	0.12
6334	0.07	-0.82	0.28	0.90	-0.73	0.58	3.00	-1.02	0.42	0.65	0.12	0.57	0.36	-0.70	0.10
		-0.05	0.01		-0.16	0.06		-0.80	0.16		0.02	0.03		-0.11	0.01
6335	0.11	-0.20	0.28	1.35	1.26	0.56	4.96	1.49	0.30	0.55	-0.58	0.48	0.47	-0.02	0.55
		-0.01	0.01		0.28	0.05		1.16	0.11		-0.08	0.03		0.00	0.03
6336	0.20	1.13	0.70	1.43	1.63	0.61	3.80	0.00	0.71	0.67	0.29	0.48	0.71	1.56	0.20
		0.07	0.03		0.37	0.06		0.00	0.26		0.04	0.03		0.24	0.01
6343	0.03	-1.43	0.00	0.81	-1.16	0.24	3.70	-0.13	0.26	0.45	-1.34	0.22	0.25	-1.42	0.20
		-0.09	0.00		-0.26	0.02		-0.10	0.10		-0.19	0.01		-0.22	0.01
6353	0.17	0.77	1.44	0.80	-1.19	0.37	2.19	-2.07	0.11	0.60	-0.22	0.77	0.32	-0.98	0.00
		0.05	0.05		-0.27	0.03		-1.61	0.04		-0.03	0.04		-0.15	0.00
Grand Median		0.12			1.07			3.80			0.63			0.47	
Median Abs Dev		0.04			0.15			0.53			0.09			0.10	
Avg Within Lab SD		0.04			0.09			0.37			0.05			0.06	
Labs Included		15			15			15			15			15	
Labs Reporting		15			15			15			15			15	



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Zn - HCl (173) in the Micronutrients Property Group															
6304	1.75			2.45			2.52			3.16			4.03		
Grand Median	1.75			2.45			2.52			3.16			4.03		
Median Abs Dev															
Avg Within Lab SD															
Labs Included	1			1			1			1			1		
Labs Reporting	1			1			1			1			1		
Mn-H3PO4 (174) in the Micronutrients Property Group															
6304	11.77			15.23			33.18			25.00			21.73		
Grand Median	11.77			15.23			33.18			25.00			21.73		
Median Abs Dev															
Avg Within Lab SD															
Labs Included	1			1			1			1			1		
Labs Reporting	1			1			1			1			1		
Cl - Ca(NO3)2 Extr. (175) in the Micronutrients Property Group															
6307	2.23			3.37			5.53			10.00			3.37		
6330	5.09			5.23			7.06			9.01			3.93		
Grand Median	3.66			4.30			6.30			9.51			3.65		
Median Abs Dev															
Avg Within Lab SD															
Labs Included	2			2			2			2			2		
Labs Reporting	2			2			2			2			2		
B - Hot Wat. (176) in the Micronutrients Property Group															



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6278	0.15	-0.81	0.75	0.41	-1.82	0.53	0.30	-1.20	0.27	0.42	-0.75	0.85	0.48	-0.73	0.94
		-0.16	0.04		-0.61	0.05		-0.32	0.02		-0.36	0.08		-0.11	0.05
6288	0.39	0.42	0.57	1.03	0.04	1.37	0.47	-0.57	1.05	0.96	0.38	1.43	0.46	-0.87	1.34
		0.08	0.03		0.01	0.13		-0.15	0.08		0.18	0.13		-0.14	0.08
6304	0.36	0.26		0.95	-0.20		0.99	1.35		0.60	-0.37		0.72	0.84	
		0.05			-0.07			0.36			-0.18			0.13	
6306	0.62	1.57	2.13	1.02	0.00	0.45	0.63	0.00	1.99	0.34	-0.91	0.57	0.59	0.00	1.08
		0.31	0.11		0.00	0.04		0.00	0.15		-0.44	0.05		0.00	0.06
6327	0.21	-0.53	1.23	1.54	1.55	1.39	0.76	0.50	1.33	1.50	1.50	1.94	0.77	1.15	1.64
		-0.11	0.07		0.52	0.14		0.13	0.10		0.72	0.18		0.18	0.09
6334	0.31	0.00	0.19	1.27	0.73	1.65	0.63	0.02	0.20	1.16	0.81	0.17	0.61	0.13	0.57
		0.00	0.01		0.25	0.16		0.01	0.02		0.39	0.02		0.02	0.03
6343	0.09	-1.13	0.11	0.89	-0.39	0.10	0.33	-1.09	0.20	0.78	0.00	0.33	0.44	-1.00	0.37
		-0.22	0.01		-0.13	0.01		-0.29	0.02		0.00	0.03		-0.16	0.02
Grand Median		0.31			1.02			0.63			0.78			0.59	
Median Abs Dev		0.13			0.23			0.18			0.32			0.11	
Avg Within Lab SD		0.05			0.10			0.08			0.09			0.06	
Labs Included		7			7			7			7			7	
Labs Reporting		7			7			7			7			7	

B-DTPA/Sorbitol (177)

in the Micronutrients Property Group

Data units: mg/kg

6276	0.09	0.26	0.15	1.14	0.20
6283	0.12	0.32	0.27	1.13	0.25
6305	0.17	0.32	0.22	0.87	0.20
6330	0.10	0.27	0.19	1.31	0.33



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	0.11			0.29			0.21			1.14			0.22		
Median Abs Dev															
Avg Within Lab SD															
Labs Included	4			4			4			4			4		
Labs Reporting	4			4			4			4			4		

Soil Kjeldahl N (178) in the Soil Organic Matter Property Group															
															Data units: Percent
6278	0.06	0.00	0.62	0.20	0.00	2.10	0.16	-0.11	1.33	0.14	-0.07	1.47	0.05	-0.03	0.00
		0.00	0.00		0.00	0.01		-0.01	0.00		0.00	0.00		0.00	0.00
6284	0.07	0.19		0.21	0.06		0.16	0.00		0.14	0.00		0.06	0.03	
		0.01			0.00			0.00			0.00			0.00	
6327	0.04	-0.49	1.95	0.15	-1.16	0.00	0.11	-1.03	1.72	0.11	-1.69	0.00	0.03	-0.50	0.00
		-0.02	0.01		-0.05	0.00		-0.05	0.01		-0.03	0.00		-0.03	0.00
6330	0.06	-0.02	0.89	0.22	0.29	0.77	0.17	0.18	0.45	0.15	0.42	0.56	0.06	0.00	2.19
		0.00	0.00		0.01	0.00		0.01	0.00		0.01	0.00		0.00	0.00
6334	0.15	2.67	0.07	0.12	-1.86	0.06	0.26	2.06	0.30	0.17	1.20	1.59	0.20	2.80	0.44
		0.09	0.00		-0.08	0.00		0.10	0.00		0.02	0.00		0.14	0.00
Grand Median	0.06			0.20			0.16			0.14			0.06		
Median Abs Dev	0.02			0.03			0.03			0.01			0.03		
Avg Within Lab SD	0.00			0.01			0.00			0.00			0.00		
Labs Included	5			5			5			5			5		
Labs Reporting	5			5			5			5			5		

Soil TN (combustion) (179) in the Soil Organic Matter Property Group															
															Data units: Percent
6276	0.07			0.19			0.16			0.15			0.06		
6305	0.08			0.15			0.12			0.11			0.05		



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	0.07			0.17			0.14			0.13			0.05		
Median Abs Dev															
Avg Within Lab SD															
Labs Included	2			2			2			2			2		
Labs Reporting	2			2			2			2			2		

Soil TOC (Combustion) (180)			in the Soil Organic Matter Property Group									Data units: Percent				
6276	0.60		2.83		1.86		7.00		0.40							
Grand Median	0.60		2.83		1.86		7.00		0.40							
Median Abs Dev																
Avg Within Lab SD																
Labs Included	1		1		1		1		1		1					
Labs Reporting	1		1		1		1		1		1					

SOM - Walkley-Black (181)				in the Soil Organic Matter Property Group												Data units: Percent		
6278	1.24	0.05	0.16	4.09	-0.03	0.14	2.74	0.00	0.06	2.81	-1.61	0.17	0.87	0.00	0.12			
		0.01	0.01		-0.03	0.01		0.00	0.01		-1.09	0.03		0.00	0.01			
6283	1.23	-0.05	1.67	4.21	0.09	0.77	2.79	0.09	2.08	3.18	-1.06	0.56	0.80	-0.22	1.91			
		-0.01	0.15		0.09	0.08		0.06	0.26		-0.72	0.10		-0.06	0.12			
6288	1.37	0.98	0.64	5.00	0.85	1.01	2.33	-0.65	0.45	3.17	-1.09	0.68	0.73	-0.47	0.94			
		0.13	0.06		0.88	0.10		-0.40	0.06		-0.73	0.12		-0.13	0.06			
6289	1.23	0.00	0.64	3.33	-0.76	1.16	2.13	-0.97	0.45	3.90	0.00	0.59	0.70	-0.59	0.00			
		0.00	0.06		-0.79	0.12		-0.60	0.06		0.00	0.10		-0.17	0.00			
6327	0.99	-1.81	0.28	4.12	0.00	1.22	2.88	0.23	0.90	4.15	0.37	2.34	0.98	0.41	0.99			
		-0.25	0.03		0.00	0.12		0.14	0.11		0.25	0.40		0.12	0.06			
6330	1.20	-0.24	1.11	3.47	-0.63	1.54	2.60	-0.22	0.79	3.97	0.10	0.34	1.27	1.44	0.94			
		-0.03	0.10		-0.65	0.15		-0.14	0.10		0.07	0.06		0.40	0.06			
6343	1.45	1.59	1.44	6.57	2.36	0.42	4.31	2.55	0.92	4.23	0.49	0.53	1.31	1.59	0.75			
		0.22	0.13		2.45	0.04		1.58	0.12		0.33	0.09		0.45	0.05			



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	1.23			4.12			2.74			3.90			0.87		
Median Abs Dev	0.09			0.70			0.42			0.46			0.19		
Avg Within Lab SD	0.09			0.10			0.13			0.17			0.06		
Labs Included	7			7			7			7			7		
Labs Reporting	7			7			7			7			7		

SOM - LOI (% Wt loss) (182)															
in the Soil Organic Matter Property Group															
Data units: Percent															
6304	0.77	-1.29		3.92	-0.60		2.57	-0.72		3.03	-0.90		1.22	-0.34	
		-0.45			-0.45			-0.56			-1.07			-0.21	
6305	1.36	0.42	0.89	5.81	1.93	1.91	4.40	1.65	1.44	7.13	2.56	0.50	2.66	2.01	1.36
		0.15	0.10		1.44	0.42		1.27	0.19		3.04	0.13		1.23	0.11
6306	1.17	-0.14	0.41	4.35	-0.03	1.18	3.01	-0.15	1.22	3.78	-0.27	1.96	1.21	-0.35	2.04
		-0.05	0.05		-0.02	0.26		-0.11	0.17		-0.32	0.50		-0.22	0.16
6307	1.07	-0.42	0.18	4.39	0.03	0.39	3.03	-0.12	0.92	4.24	0.12	0.11	1.45	0.04	1.29
		-0.15	0.02		0.02	0.09		-0.10	0.13		0.15	0.03		0.03	0.10
6327	1.26	0.14	0.23	5.02	0.87	1.22	3.51	0.50	1.19	4.84	0.63	0.81	1.60	0.29	0.27
		0.05	0.03		0.65	0.27		0.39	0.16		0.75	0.21		0.18	0.02
6330	1.61	1.12	1.06	4.21	-0.22	0.77	3.22	0.12	0.85	4.79	0.58	0.27	1.68	0.42	0.82
		0.39	0.12		-0.16	0.17		0.10	0.12		0.69	0.07		0.26	0.06
6333	1.10	-0.33		4.60	0.31		3.30	0.23		4.80	0.59		1.40	-0.04	
		-0.12			0.23			0.18			0.70			-0.03	
6334	0.77	-1.29	0.53	4.01	-0.48	0.03	2.40	-0.93	0.07	3.71	-0.33	0.40	0.77	-1.07	0.64
		-0.45	0.06		-0.36	0.01		-0.72	0.01		-0.39	0.10		-0.66	0.05
6336	1.33	0.32	0.43	4.76	0.52	0.92	3.52	0.51	0.84	3.95	-0.12	0.81	1.52	0.15	0.39
		0.11	0.05		0.39	0.20		0.40	0.11		-0.15	0.21		0.10	0.03
6353	1.66	1.28	2.52	3.06	-1.75	0.95	1.73	-1.80	1.31	3.34	-0.64	1.83	0.18	-2.02	0.13
		0.45	0.27		-1.31	0.21		-1.39	0.18		-0.76	0.47		-1.25	0.01
Grand Median	1.22			4.37			3.12			4.10			1.43		
Median Abs Dev	0.24			0.50			0.52			0.80			0.41		
Avg Within Lab SD	0.11			0.22			0.14			0.26			0.08		
Labs Included	10			10			10			10			10		
Labs Reporting	10			10			10			10			10		



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
CaCO3 Content (183)															
	Data units: Percent														
6327	0.47			1.37			0.92			24.95			2.23		
6330	0.10			0.68			0.38			20.13			0.83		
6334	0.29			1.22			1.11			34.74			1.94		
Grand Median	0.29			1.22			0.92			24.95			1.94		
Median Abs Dev															
Avg Within Lab SD															
Labs Included		3			3			3			3			3	
Labs Reporting		3			3			3			3			3	
CEC - Cation Displacement (184)															
	Data units: cmol/kg														
6278	3.85			25.25			15.00			48.90			11.20		
6327	4.38			29.30			17.47			52.87			12.53		
6330	3.90			27.20			15.00			43.90			12.10		
6334	2.44			14.53			8.90			22.80			8.17		
Grand Median	3.88			26.23			15.00			46.40			11.65		
Median Abs Dev															
Avg Within Lab SD															
Labs Included		4			4			4			4			4	
Labs Reporting		4			4			4			4			4	
CEC - Estimation (185)															
	Data units: cmol/kg														
6327	3.14			20.56			13.25			47.23			11.49		



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	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	3.14			20.56			13.25			47.23			11.49		
Median Abs Dev															
Avg Within Lab SD															
Labs Included	1			1			1			1			1		
Labs Reporting	1			1			1			1			1		

Soil Density (Scoop) (186)															Data units: g/cc	
6327	1.42			0.99			0.95			1.30			1.05			
Grand Median	1.42			0.99			0.95			1.30			1.05			
Median Abs Dev																
Avg Within Lab SD																
Labs Included	1			1			1			1			1			
Labs Reporting	1			1			1			1			1			

Sand 2000 - 50 um (187)															Data units: Percent	
in the Particle Size Analysis Property Group																
6276	92.50			36.25			21.67			15.83			60.00			
6284	88.00			31.00			17.00			34.00			58.00			
6327	89.56			34.92			20.25			14.54			55.14			
6330	85.50			25.20			9.20			9.20			53.20			
Grand Median	88.78			32.96			18.63			15.19			56.57			
Median Abs Dev																
Avg Within Lab SD																
Labs Included	4			4			4			4			4			
Labs Reporting	4			4			4			4			4			

Silt 50 - 2 um (188)															Data units: Percent
in the Particle Size Analysis Property Group															



ALP Program - Participant Web Summary Report - Cycle 01

	SRS0601			SRS0602			SRS0603			SRS0604			SRS0605		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
6276	3.33			33.33			63.75			32.08			37.08		
6284	9.00			39.00			65.00			33.00			38.00		
6327	6.43			30.98			60.07			25.69			39.07		
6330	8.80			37.20			69.20			31.20			38.80		
Grand Median	7.62			35.27			64.38			31.64			38.40		
Median Abs Dev															
Avg Within Lab SD															
Labs Included		4			4			4			4			4	
Labs Reporting		4			4			4			4			4	

Clay 2 - 0 um (189)		in the Particle Size Analysis Property Group					Data units: Percent
6276	4.17	30.42	14.58	52.08		2.92	
6284	3.00	30.00	18.00	33.00		4.00	
6327	4.01	34.10	19.68	59.77		5.79	
6330	6.00	37.60	21.60	59.60		8.00	
Grand Median	4.09	32.26	18.84	55.84		4.90	
Median Abs Dev							
Avg Within Lab SD							
Labs Included		4	4	4	4	4	
Labs Reporting		4	4	4	4	4	



ALP Program - Participant Web Summary Report - Cycle 01

SRB0601

Sample Mean	Z Score	k Score
Difference W/L STD		

SRB0602

Sample Mean	Z Score	k Score
Difference W/L STD		

SRB0603

Sample Mean	Z Score	k Score
Difference W/L STD		

Dry Matter (%) (201)

Data units: Percent

	SRB0601	SRB0602	SRB0603	
6276	94.01	91.65	94.71	1.29 0.28
6278	93.69	91.28	93.71	0.89 0.19
6334	92.69	89.40	92.47	0.05 0.01
6335	93.57	90.80	93.00	1.24 0.26

Grand Median	93.63	91.04	93.36	
Median Abs Dev			0.74	
Avg Within Lab SD			0.21	
Labs Included	4	4	4	
Labs Reporting	4	4	4	

NO3 - N Cd Rd. (202)

Data units: mg/kg

	SRB0601	SRB0602	SRB0603	
6276	13,931.83 451.66 0.27 0.81	5,239.04 -362.63 -0.44 0.54	1,002.47 -52.93 -0.34 0.90	
6283	13,371.00 -109.17 -0.07 0.20	5,599.00 -2.67 0.00 0.88	980.00 -75.40 -0.49 1.81	
6284	11,400.00 -2,080.17 -1.25 0.10	4,600.00 -1,001.67 -1.22 0.34	900.00 -155.40 -1.01 0.00	
6291	13,262.67 -217.50 -0.13 0.91	5,604.33 2.67 0.00 0.90	1,178.67 123.26 0.80 0.78	
6305	11,780.64 -1,699.53 -1.02 2.32	4,931.04 -670.63 -0.82 1.99	925.38 -130.02 -0.84 1.47	117.27
6334	13,589.33 109.17 0.07 0.99	6,028.33 426.67 0.52 1.31	1,108.33 52.93 0.34 1.05	83.72
6335	17,075.33 3,595.17 2.16 0.35	7,223.67 1,622.00 1.97 0.51	1,217.33 161.93 1.05 0.14	11.02
6343	14,210.67 730.50 0.44 0.03	5,945.00 343.33 0.42 0.24	1,134.00 78.60 0.51 0.12	9.85



ALP Program - Participant Web Summary Report - Cycle 01

	SRB0601			SRB0602			SRB0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	13,480.17			5,601.67			1,055.40		
Median Abs Dev	1,124.11			554.03			103.81		
Avg Within Lab SD	973.70			296.67			79.67		
Labs Included	8			8			8		
Labs Reporting	8			8			8		

NO3 - N ISE (203)										Data units: mg/kg
6278	13,236.67			5,828.33			1,243.33			1.00 36.86
Grand Median	13,236.67			5,828.33			1,243.33			
Median Abs Dev										
Avg Within Lab SD										36.86
Labs Included	1			1			1			
Labs Reporting	1			1			1			

PO4 - P (206)										Data units: mg/kg
6278	1,446.67	0.94	1.41	2,193.33	0.52	1.01	1,580.00	0.16	0.73	
		136.00	46.19		111.33	37.86		41.33	34.64	
6283	1,264.33	-0.32	0.34	1,991.00	-0.42	1.43	1,385.00	-0.59	1.39	
		-46.33	11.06		-91.00	53.73		-153.67	66.57	
6291	1,284.00	-0.18	0.41	1,891.00	-0.89	1.14	1,436.67	-0.39	0.73	
		-26.67	13.23		-191.00	43.00		-102.00	34.85	
6334	1,589.00	1.93	1.24	2,414.67	1.55	0.27	2,117.00	2.23	1.21	
		278.33	40.63		332.67	10.21		578.33	58.03	
6343	1,310.67	0.00	1.08	2,082.00	0.00	0.76	1,538.67	0.00	0.72	
		0.00	35.35		0.00	28.62		0.00	34.59	
Grand Median	1,310.67			2,082.00			1,538.67			
Median Abs Dev	97.47			145.20			175.07			
Avg Within Lab SD	32.65			37.66			47.77			
Labs Included	5			5			5			
Labs Reporting	5			5			5			



ALP Program - Participant Web Summary Report - Cycle 01

	SRB0601			SRB0602			SRB0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
6291	2.36			1.84			3.22		1.30
									0.07
6330	2.00			1.42			2.85		1.03
									0.06
Grand Median		2.18			1.61			2.85	
Median Abs Dev								0.12	
Avg Within Lab SD								0.05	
Labs Included		3			3			3	
Labs Reporting		3			3			3	

N- Dry Comb. (210)										Data units: Percent
6276	3.09	0.31	2.15	2.03	0.02	0.23	3.20	0.06	2.05	
		0.03	0.10		0.00	0.05		0.01	0.10	
6283	3.10	0.39	0.37	2.01	-0.17	0.18	3.19	0.00	0.53	
		0.04	0.02		-0.02	0.04		0.00	0.03	
6284	2.90	-1.50	0.99	1.79	-1.91	0.05	2.92	-1.83	0.80	
		-0.16	0.05		-0.23	0.01		-0.27	0.04	
6305	2.98	-0.78	0.94	2.21	1.53	2.62	3.05	-0.92	0.38	
		-0.08	0.04		0.19	0.58		-0.14	0.02	
6334	3.02	-0.33	0.25	1.92	-0.87	0.09	3.07	-0.78	0.46	
		-0.04	0.01		-0.11	0.02		-0.12	0.02	
6335	3.06	0.00	0.35	2.03	0.00	0.15	3.21	0.15	1.19	
		0.00	0.02		0.00	0.03		0.02	0.06	
6343	3.21	1.41	0.45	2.05	0.22	0.07	3.34	0.98	0.30	
		0.15	0.02		0.03	0.02		0.15	0.02	
Grand Median		3.06			2.03			3.19		
Median Abs Dev		0.07			0.08			0.10		
Avg Within Lab SD		0.05			0.22			0.05		
Labs Included		7			7			7		
Labs Reporting		7			7			7		

S- Dry Comb. (211)										Data units: Percent
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ALP Program - Participant Web Summary Report - Cycle 01

	SRB0601			SRB0602			SRB0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
6335	0.14			0.08			0.28		1.00 0.01
Grand Median	0.14			0.08			0.28		
Median Abs Dev									
Avg Within Lab SD							0.01		
Labs Included	1			1			1		
Labs Reporting	1			1			1		

P (212) in the Wet Digestion Property Group									
Data units: Percent									
6276	0.20	-0.02	0.21	0.30	0.25	0.31	0.31	0.15	0.83
		0.00	0.00		0.01	0.00		0.01	0.01
6278	0.20	0.00	0.10	0.30	0.12	0.04	0.31	0.17	0.33
		0.00	0.00		0.01	0.00		0.01	0.01
6283	0.20	0.05	0.76	0.29	0.00	0.75	0.30	-0.12	0.97
		0.00	0.01		0.00	0.01		-0.01	0.02
6284	0.20	-0.05	0.00	0.28	-0.18	0.00	0.30	0.00	0.37
		0.00	0.00		-0.01	0.00		0.00	0.01
6291	0.21	0.15	1.01	0.26	-0.61	1.57	0.26	-0.74	1.47
		0.01	0.02		-0.03	0.02		-0.04	0.02
6305	0.24	1.16	0.25	0.32	0.52	1.76	0.33	0.41	1.49
		0.04	0.00		0.03	0.02		0.02	0.02
6327	0.07	-4.06	2.83	0.08	-3.94	1.51	0.07	-4.23	1.98
		-0.13	0.04		-0.21	0.02		-0.23	0.03
6330	0.18	-0.76	1.01	0.25	-0.74	1.31	0.27	-0.55	0.74
		-0.03	0.02		-0.04	0.02		-0.03	0.01
6334	0.18	-0.76	0.38	0.26	-0.55	0.75	0.27	-0.68	0.37
		-0.03	0.01		-0.03	0.01		-0.04	0.01
6335	0.21	0.25	0.00	0.31	0.31	0.44	0.32	0.25	0.37
		0.01	0.00		0.02	0.01		0.01	0.01
6343	0.21	0.15	0.38	0.30	0.18	0.00	0.31	0.12	0.00
		0.01	0.01		0.01	0.00		0.01	0.00



ALP Program - Participant Web Summary Report - Cycle 01

	SRB0601			SRB0602			SRB0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	0.20			0.29			0.30		
Median Abs Dev	0.02			0.04			0.04		
Avg Within Lab SD	0.02			0.01			0.02		
Labs Included	11			11			11		
Labs Reporting	11			11			11		

K (213) in the Wet Digestion Property Group										Data units: Percent
6276	9.61	0.61	0.39	2.82	0.10	0.17	2.57	0.29	0.96	
		1.45	0.19		0.15	0.06		0.14	0.10	
6278	7.78	-0.16	0.15	2.64	-0.02	0.09	2.42	-0.04	0.24	
		-0.39	0.07		-0.02	0.03		-0.02	0.03	
6283	8.19	0.01	0.55	2.66	0.00	0.23	2.43	0.00	0.96	
		0.03	0.26		0.00	0.08		0.00	0.10	
6284	9.59	0.60	0.30	3.30	0.42	0.20	3.26	1.75	0.96	
		1.42	0.15		0.64	0.07		0.82	0.10	
6291	2.22	-2.50	0.18	10.10	4.87	3.24	2.43	-0.01	0.29	
		-5.94	0.09		7.44	1.07		0.00	0.03	
6305	8.17	0.00	0.06	2.62	-0.03	0.11	2.52	0.18	0.60	
		0.00	0.03		-0.04	0.04		0.08	0.06	
6327	2.63	-2.33	3.14	0.66	-1.32	0.51	0.59	-3.93	2.49	
		-5.54	1.50		-2.01	0.17		-1.85	0.26	
6330	7.43	-0.31	0.63	2.38	-0.18	0.20	2.20	-0.50	1.12	
		-0.74	0.30		-0.28	0.07		-0.24	0.12	
6334	6.81	-0.57	0.23	2.32	-0.22	0.22	2.25	-0.40	0.31	
		-1.35	0.11		-0.34	0.07		-0.19	0.03	
6335	8.50	0.14	0.30	2.96	0.19	0.17	2.54	0.23	0.25	
		0.33	0.15		0.29	0.06		0.11	0.03	
6343	8.63	0.19	0.16	2.77	0.07	0.06	2.48	0.11	0.34	
		0.46	0.08		0.11	0.02		0.05	0.04	



ALP Program - Participant Web Summary Report - Cycle 01

	SRB0601			SRB0602			SRB0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median		8.17		2.66		2.43			
Median Abs Dev		1.60		1.03		0.32			
Avg Within Lab SD		0.48		0.33		0.10			
Labs Included		11		11		11			
Labs Reporting		11		11		11			

Ca (214)		in the Wet Digestion Property Group								Data units: Percent
6276	2.13	0.14	0.31	0.93	0.00	0.22	0.79	0.00	0.71	
		0.07	0.04		0.00	0.02		0.00	0.03	
6278	2.03	-0.07	0.22	0.88	-0.21	0.08	0.76	-0.18	0.41	
		-0.03	0.03		-0.05	0.01		-0.03	0.02	
6283	2.18	0.24	0.33	0.94	0.03	0.16	0.81	0.17	0.15	
		0.12	0.04		0.01	0.01		0.03	0.01	
6284	2.06	0.00	0.20	0.90	-0.12	0.14	0.81	0.15	0.80	
		0.00	0.03		-0.03	0.01		0.02	0.03	
6291	0.71	-2.71	1.08	1.63	2.75	2.01	0.78	-0.06	2.05	
		-1.35	0.14		0.70	0.15		-0.01	0.08	
6305	2.36	0.61	0.27	1.18	0.97	2.14	1.10	1.98	0.79	
		0.30	0.04		0.25	0.15		0.32	0.03	
6327	0.64	-2.86	2.78	0.21	-2.83	0.74	0.18	-3.81	2.08	
		-1.42	0.37		-0.72	0.05		-0.61	0.08	
6330	2.03	-0.05	0.93	0.91	-0.09	0.80	0.77	-0.10	0.27	
		-0.03	0.12		-0.02	0.06		-0.02	0.01	
6334	1.88	-0.36	0.73	0.92	-0.05	0.90	0.73	-0.35	0.46	
		-0.18	0.10		-0.01	0.07		-0.06	0.02	
6335	2.24	0.37	0.57	1.01	0.30	0.49	0.86	0.44	0.41	
		0.18	0.08		0.08	0.04		0.07	0.02	
6343	2.07	0.02	0.08	0.95	0.07	0.08	0.81	0.17	0.15	
		0.01	0.01		0.02	0.01		0.03	0.01	



ALP Program - Participant Web Summary Report - Cycle 01

	SRB0601			SRB0602			SRB0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	2.06			0.93			0.79		
Median Abs Dev	0.34			0.17			0.11		
Avg Within Lab SD	0.13			0.07			0.04		
Labs Included	11			11			11		
Labs Reporting	11			11			11		

Mg (215)		in the Wet Digestion Property Group								Data units: Percent
6276	1.13	0.15	0.27	0.42	0.09	0.40	0.35	0.00	0.75	
		0.04	0.02		0.01	0.01		0.00	0.01	
6278	1.06	-0.14	0.28	0.39	-0.15	0.37	0.33	-0.37	0.38	
		-0.03	0.02		-0.02	0.01		-0.02	0.01	
6283	1.10	0.03	0.74	0.41	0.00	0.00	0.33	-0.32	0.59	
		0.01	0.05		0.00	0.00		-0.02	0.01	
6284	1.09	0.00	0.26	0.40	-0.05	0.34	0.36	0.20	0.59	
		0.00	0.02		-0.01	0.01		0.01	0.01	
6291	0.32	-3.21	0.15	0.93	3.91	0.90	0.38	0.61	0.34	
		-0.77	0.01		0.52	0.02		0.03	0.01	
6305	1.13	0.19	0.54	0.46	0.35	2.29	0.38	0.48	2.09	
		0.04	0.04		0.05	0.04		0.03	0.04	
6327	0.35	-3.09	3.06	0.10	-2.36	1.57	0.08	-4.74	2.13	
		-0.74	0.20		-0.31	0.03		-0.27	0.04	
6330	1.03	-0.26	0.63	0.39	-0.18	0.68	0.33	-0.32	0.00	
		-0.06	0.04		-0.02	0.01		-0.02	0.00	
6334	1.07	-0.10	0.38	0.40	-0.08	1.02	0.34	-0.21	0.34	
		-0.02	0.03		-0.01	0.02		-0.01	0.01	
6335	1.14	0.21	0.00	0.44	0.20	0.34	0.36	0.14	0.69	
		0.05	0.00		0.03	0.01		0.01	0.01	
6343	1.10	0.04	0.00	0.42	0.05	0.68	0.35	0.03	0.00	
		0.01	0.00		0.01	0.01		0.00	0.00	



ALP Program - Participant Web Summary Report - Cycle 01

	SRB0601			SRB0602			SRB0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median		1.09		0.41		0.35			
Median Abs Dev		0.16		0.09		0.04			
Avg Within Lab SD		0.07		0.02		0.02			
Labs Included		11		11		11			
Labs Reporting		11		11		11			

S (216)		in the Wet Digestion Property Group								Data units: Percent
6276	0.20	1.09	0.35	0.08	1.04	0.44	0.26	0.94	1.04	
		0.02	0.00		0.01	0.00		0.02	0.01	
6278	0.18	-0.15	1.38	0.08	0.76	0.00	0.23	-0.39	1.16	
		0.00	0.01		0.01	0.00		-0.01	0.01	
6283	0.20	0.83	0.67	0.08	0.25	1.23	0.24	0.09	0.96	
		0.02	0.01		0.00	0.01		0.00	0.01	
6284	0.17	-0.53	0.00	0.07	-0.25	1.23	0.24	-0.09	0.55	
		-0.01	0.00		0.00	0.01		0.00	0.01	
6305	0.20	1.07	0.41	0.08	0.76	1.33	0.26	1.00	1.93	
		0.02	0.00		0.01	0.01		0.02	0.02	
6330	0.16	-0.87	1.77	0.06	-1.77	1.23	0.22	-0.84	0.55	
		-0.02	0.02		-0.01	0.01		-0.02	0.01	
6334	0.17	-0.70	1.34	0.07	-0.25	1.23	0.21	-1.58	0.00	
		-0.01	0.01		0.00	0.01		-0.03	0.00	
6343	0.18	0.15	0.67	0.07	-0.30	0.21	0.25	0.46	0.55	
		0.00	0.01		0.00	0.00		0.01	0.01	
Grand Median		0.18		0.08		0.24				
Median Abs Dev		0.01		0.00		0.01				
Avg Within Lab SD		0.01		0.00		0.01				
Labs Included		8		8		8				
Labs Reporting		8		8		8				

Na (217)		in the Wet Digestion Property Group								Data units: Percent
6276	0.10	0.23	0.79	3.86	0.77	1.24	0.03	-0.11	0.86	
		0.01	0.01		0.90	0.19		0.00	0.00	



ALP Program - Participant Web Summary Report - Cycle 01

	SRB0601			SRB0602			SRB0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6278	0.10	0.19	0.40	2.94	-0.02	0.25	0.04	0.00	1.16
		0.01	0.00		-0.02	0.04		0.00	0.01
6283	0.09	0.00	1.15	3.15	0.16	0.58	0.04	0.14	0.00
		0.00	0.01		0.19	0.09		0.00	0.00
6284	0.11	0.89	0.67	4.88	1.65	0.42	0.06	0.99	0.00
		0.02	0.01		1.92	0.07		0.02	0.00
6291	0.14	1.78	1.33	0.15	-2.41	0.29	0.13	3.98	2.01
		0.05	0.01		-2.81	0.05		0.09	0.01
6305	0.08	-0.57	0.12	2.77	-0.16	0.71	0.04	0.00	1.83
		-0.02	0.00		-0.19	0.11		0.00	0.01
6327	0.04	-2.04	2.40	0.79	-1.86	1.33	0.01	-1.21	0.42
		-0.05	0.02		-2.17	0.21		-0.03	0.00
6330	0.09	-0.13	0.67	3.05	0.08	2.47	0.04	0.00	1.16
		0.00	0.01		0.09	0.39		0.00	0.01
6334	0.07	-0.76	0.00	2.82	-0.12	0.64	0.05	0.57	0.00
		-0.02	0.00		-0.14	0.10		0.01	0.00
6335	0.11	0.64	0.67	3.16	0.17	0.11	0.04	0.14	0.00
		0.02	0.01		0.20	0.02		0.00	0.00
6343	0.09	-0.19	0.00	2.96	0.00	0.13	0.03	-0.28	0.00
		-0.01	0.00		0.00	0.02		-0.01	0.00
Grand Median		0.09		2.96			0.04		
Median Abs Dev		0.02		0.78			0.02		
Avg Within Lab SD		0.01		0.16			0.00		
Labs Included		11		11			11		
Labs Reporting		11		11			11		

AI (218) in the Wet Digestion Property Group									
Data units: mg/kg									
6283	137.33	0.46	0.42	37.33	-0.04	1.69	89.33	0.81	0.35
		26.83	9.87		-0.67	6.66		19.25	2.52
6284	60.00	-0.87	0.08	21.67	-0.94	0.15	63.33	-0.28	0.77
		-50.50	2.00		-16.33	0.58		-6.75	5.51
6327	78.44	-0.55	2.22	22.30	-0.91	1.20	27.83	-1.77	1.79
		-32.06	52.61		-15.70	4.73		-42.25	12.86



ALP Program - Participant Web Summary Report - Cycle 01

	SRB0601			SRB0602			SRB0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6330	153.33	0.74	0.89	38.67	0.04	1.27	87.33	0.72	1.14
		42.83	21.22		0.67	5.03		17.25	8.14
6334	83.67	-0.46	0.30	44.33	0.37	0.15	75.67	0.23	0.70
		-26.83	7.09		6.33	0.58		5.58	5.03
6335	165.47	0.95	0.14	68.47	1.76	0.25	64.50	-0.23	0.55
		54.97	3.27		30.47	0.99		-5.58	3.91
Grand Median		110.50		38.00			70.08		
Median Abs Dev		39.00		11.69			16.11		
Avg Within Lab SD		23.74		3.95			7.18		
Labs Included		6		6			6		
Labs Reporting		6		6			6		

B (219)			in the Wet Digestion Property Group						Data units: mg/kg
6278	33.40	0.50	0.74	28.73	0.01	0.88	14.20	-0.05	0.65
		2.81	1.71		0.07	1.27		-0.17	0.69
6283	29.67	-0.16	0.66	27.67	-0.19	0.40	13.33	-0.33	0.54
		-0.92	1.53		-1.00	0.58		-1.03	0.58
6284	31.33	0.13	0.25	28.67	0.00	0.40	14.67	0.10	1.09
		0.75	0.58		0.00	0.58		0.30	1.15
6305	30.59	0.00	0.52	27.19	-0.29	1.28	15.40	0.33	0.25
		0.00	1.21		-1.47	1.85		1.04	0.27
6327	9.59	-3.74	2.31	4.30	-4.73	1.89	3.04	-3.63	1.44
		-21.00	5.34		-24.36	2.74		-11.33	1.53
6330	33.67	0.55	1.33	28.00	-0.13	0.69	16.67	0.74	1.96
		3.08	3.06		-0.67	1.00		2.30	2.08
6334	28.67	-0.34	0.50	28.67	0.00	1.05	13.33	-0.33	0.54
		-1.92	1.15		0.00	1.53		-1.03	0.58
6335	33.93	0.60	0.52	31.80	0.61	0.95	16.10	0.56	0.82
		3.35	1.19		3.13	1.37		1.73	0.87
6343	30.33	-0.05	0.20	29.23	0.11	0.48	14.37	0.00	0.33
		-0.25	0.47		0.57	0.70		0.00	0.35



ALP Program - Participant Web Summary Report - Cycle 01

	SRB0601			SRB0602			SRB0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	24.33			15.87			42.59		
Median Abs Dev	3.81			2.50			6.25		
Avg Within Lab SD	1.59			1.41			2.57		
Labs Included	11			11			11		
Labs Reporting	11			11			11		

Mn (221)		in the Wet Digestion Property Group									Data units: mg/kg				
6276	79.53	0.35	0.41	4.33	2.05	14.51	0.15	0.21	1.51	0.23	69.30	0.48	1.03	7.97	2.80
6278	73.33	-0.15	0.42	-1.87	2.08	12.67	-0.03	0.53	-0.33	0.58	61.33	0.00	0.56	0.00	1.53
6283	77.67	0.20	0.50	2.47	2.52	12.00	-0.10	1.84	-1.00	2.00	63.33	0.12	0.56	2.00	1.53
6284	75.67	0.04	0.46	0.47	2.31	13.33	0.03	0.53	0.33	0.58	71.33	0.60	0.85	10.00	2.31
6291	58.90	-1.34	0.25	-16.30	1.26	65.98	5.34	2.13	52.98	2.31	14.78	-2.81	0.56	-46.56	1.53
6305	71.77	-0.28	0.17	-3.43	0.84	14.95	0.20	0.95	1.95	1.03	59.99	-0.08	0.29	-1.34	0.79
6327	24.08	-4.19	2.84	-51.13	14.21	3.44	-0.96	0.77	-9.56	0.84	15.16	-2.78	2.45	-46.17	6.63
6330	70.33	-0.40	1.10	-4.87	5.51	12.33	-0.07	0.53	-0.67	0.58	59.33	-0.12	1.06	-2.00	2.89
6334	80.33	0.42	0.90	5.13	4.51	18.33	0.54	0.53	5.33	0.58	60.00	-0.08	0.37	-1.33	1.00
6335	75.20	0.00	0.17	0.00	0.85	13.00	0.00	0.60	0.00	0.66	63.20	0.11	0.95	1.87	2.57
6343	75.73	0.04	0.10	0.53	0.50	13.00	0.00	0.24	0.00	0.26	65.13	0.23	0.15	3.80	0.42



ALP Program - Participant Web Summary Report - Cycle 01

	SRB0601			SRB0602			SRB0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	75.20			13.00			61.33		
Median Abs Dev	8.23			6.70			11.19		
Avg Within Lab SD	5.01			1.09			2.71		
Labs Included	11			11			11		
Labs Reporting	11			11			11		

Fe (222)				in the Wet Digestion Property Group						Data units: mg/kg
6276	176.18	0.13	1.05	66.13	0.04	0.43	172.76	0.00	1.51	
		6.51	21.47		1.13	3.10		0.00	17.99	
6278	169.67	0.00	0.40	65.00	0.00	0.24	196.67	0.36	0.55	
		0.00	8.14		0.00	1.73		23.91	6.51	
6283	186.67	0.34	0.40	77.00	0.40	1.46	199.00	0.40	0.08	
		17.00	8.08		12.00	10.44		26.24	1.00	
6284	114.00	-1.10	0.26	55.67	-0.31	0.57	136.67	-0.55	0.48	
		-55.67	5.29		-9.33	4.04		-36.09	5.69	
6291	193.97	0.48	0.83	163.57	3.29	2.05	64.34	-1.64	0.34	
		24.30	17.02		98.57	14.68		-108.42	4.09	
6305	154.28	-0.30	0.23	82.24	0.58	0.82	183.75	0.17	0.88	
		-15.39	4.64		17.24	5.83		10.99	10.44	
6327	72.89	-1.91	2.49	19.60	-1.52	0.76	59.75	-1.71	2.54	
		-96.77	50.72		-45.40	5.44		-113.01	30.27	
6330	200.67	0.61	1.39	85.33	0.68	1.61	177.33	0.07	0.63	
		31.00	28.36		20.33	11.50		4.58	7.51	
6334	116.33	-1.05	0.76	63.33	-0.06	0.32	112.67	-0.91	0.46	
		-53.33	15.50		-1.67	2.31		-60.09	5.51	
6335	109.57	-1.19	0.10	48.70	-0.54	0.36	108.30	-0.97	0.46	
		-60.10	2.08		-16.30	2.56		-64.46	5.45	
6343	185.00	0.30	0.20	64.67	-0.01	0.16	216.00	0.65	0.22	
		15.33	4.00		-0.33	1.15		43.24	2.65	



ALP Program - Participant Web Summary Report - Cycle 01

	SRB0601			SRB0602			SRB0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	169.67			65.00			172.76		
Median Abs Dev	34.13			20.21			44.64		
Avg Within Lab SD	20.38			7.15			11.93		
Labs Included	11			11			11		
Labs Reporting	11			11			11		

Cu (223)		in the Wet Digestion Property Group									Data units: mg/kg
6276	12.37	-0.79	0.55	1.05	-0.93	1.43	10.17	-0.78	1.71		
		-2.63	0.79		-2.95	0.85		-2.49	1.70		
6278	14.67	-0.10	0.40	4.00	0.00		12.67	0.00	0.58		
		-0.33	0.58		0.00			0.00	0.58		
6283	16.67	0.50	0.80	4.00	0.00	1.69	12.67	0.00	0.58		
		1.67	1.15		0.00	1.00		0.00	0.58		
6284	14.67	-0.10	0.40	4.00	0.00		14.00	0.42	1.00		
		-0.33	0.58		0.00			1.33	1.00		
6291	11.20	-1.14	0.49	12.21	2.58	0.57	3.95	-2.71	0.20		
		-3.80	0.71		8.21	0.34		-8.71	0.20		
6305	18.75	1.12	0.15	9.12	1.61	0.28	12.99	0.10	0.18		
		3.75	0.21		5.12	0.17		0.32	0.18		
6327	5.70	-2.79	2.69	1.40	-0.82	0.73	3.13	-2.97	1.53		
		-9.30	3.88		-2.60	0.43		-9.53	1.52		
6330	15.00	0.00	1.38	3.67	-0.10	1.95	12.67	0.00	1.16		
		0.00	2.00		-0.33	1.15		0.00	1.15		
6334	15.33	0.10	0.40	5.67	0.52	0.98	11.67	-0.31	1.53		
		0.33	0.58		1.67	0.58		-1.00	1.53		
6335	17.60	0.78	0.42	6.70	0.85	0.59	12.73	0.02	0.55		
		2.60	0.60		2.70	0.35		0.07	0.55		
6343	15.00	0.00	0.07	4.00	0.00	0.17	13.03	0.11	0.06		
		0.00	0.10		0.00	0.10		0.37	0.06		



ALP Program - Participant Web Summary Report - Cycle 01

	SRB0601			SRB0602			SRB0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median		15.00			4.00			12.67	
Median Abs Dev		2.25			2.14			2.17	
Avg Within Lab SD		1.44			0.59			1.00	
Labs Included		11			11			11	
Labs Reporting		11			11			11	

Mo (224)	in the Wet Digestion Property Group				Data units: mg/kg
6327	0.41		0.28	0.38	1.27
					0.12
6335	0.53		0.67	0.77	0.63
					0.06
Grand Median		0.47		0.47	0.57
Median Abs Dev					0.19
Avg Within Lab SD					0.09
Labs Included		2		2	2
Labs Reporting		2		2	2



ALP Program - Participant Web Summary Report - Cycle 01

SRW0601

Sample Mean	Z Score	k Score
	Difference	W/L STD

SRW0602

Sample Mean	Z Score	k Score
	Difference	W/L STD

SRW0603

Sample Mean	Z Score	k Score
	Difference	W/L STD

PH (301)

Data units: Unit

6278	7.97	0.33 0.10		7.93	0.58 0.22		8.43	-0.51 -0.13	0.00
6304	7.70	-0.60 1.59 -0.17 0.08		7.61	-0.24 0.61 -0.09 0.02		8.53	-0.14 1.37 -0.04 0.11	
6306	7.97	0.34 0.98 0.10 0.05		7.87	0.41 1.34 0.16 0.05		8.68	0.43 1.20 0.11 0.09	
6327	7.95	0.26 0.00 0.08 0.00		7.28	-1.10 0.00 -0.43 0.00		9.04	1.82 0.00 0.48 0.00	
6330	7.80	-0.26 -0.08		7.80	0.24 0.09		8.30	-1.01 -0.26	0.00
6335	7.23	-2.25 1.23 -0.64 0.06		7.13	-1.48 1.68 -0.57 0.06		8.60	0.14 1.30 0.04 0.10	

Grand Median	7.88	7.71	8.56
Median Abs Dev	0.19	0.26	0.18
Avg Within Lab SD	0.05	0.03	0.08
Labs Included	6	6	6
Labs Reporting	6	6	6

EC (302)

Data units: dS/m

6278	0.81	0.06 0.00		0.11	-0.27 0.00		3.00	0.31 0.06	0.00
6304	0.72	-2.23 0.13 -0.08 0.00		0.13	1.45 0.76 0.02 0.00		2.52	-2.14 0.70 -0.42 0.03	
6306	0.81	0.05 2.20 0.00 0.06		0.13	1.52 2.10 0.02 0.01		2.88	-0.32 2.02 -0.06 0.08	
6327	0.80	-0.05 0.00 0.00 0.00		0.12	0.27 0.00 0.00 0.00		2.94	0.00 0.00 0.00 0.00	
6330	0.84	0.93 0.04		0.11	-0.27 0.00		3.19	1.27 0.25	0.00
6335	0.78	-0.74 0.40 -0.03 0.01		0.11	-0.27 0.00 0.00 0.00		2.94	0.00 0.66 0.00 0.03	



ALP Program - Participant Web Summary Report - Cycle 01

	SRW0601			SRW0602			SRW0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	0.80			0.11			2.94		
Median Abs Dev	0.03			0.01			0.13		
Avg Within Lab SD	0.03			0.00			0.04		
Labs Included	6			6			6		
Labs Reporting	6			6			6		

Ca (303)		in the Cations Property Group							Data units: mmol/L
6278	3.83	0.02		0.52	0.23		0.36	0.30	
		0.02			0.03			0.05	0.00
6304	1.95	-2.16	0.28	0.30	-1.25	0.22	0.26	-0.30	0.26
		-1.86	0.02		-0.18	0.01		-0.05	0.01
6306	3.79	-0.02	1.55	0.45	-0.20	1.66	0.20	-0.69	0.80
		-0.02	0.12		-0.03	0.05		-0.11	0.02
6327	3.73	-0.09	0.30	0.51	0.20	0.31	0.23	-0.52	1.68
		-0.08	0.02		0.03	0.01		-0.08	0.04
6330	4.74	1.08		0.75	1.88		0.60	1.77	
		0.93			0.27			0.29	0.00
6335	4.39	0.68	1.56	0.44	-0.27	1.45	0.39	0.48	1.22
		0.58	0.12		-0.04	0.04		0.08	0.03
Grand Median	3.81			0.48			0.31		
Median Abs Dev	0.58			0.10			0.11		
Avg Within Lab SD	0.07			0.03			0.02		
Labs Included	6			6			6		
Labs Reporting	6			6			6		

Mg (304)		in the Cations Property Group							Data units: mmol/L
6278	3.27	0.29		0.14	0.23		0.14	0.42	
		0.20			0.02			0.02	0.00
6304	1.77	-1.93	0.18	0.10	-0.30	0.84	0.11	-0.30	0.73
		-1.31	0.01		-0.02	0.01		-0.01	0.01
6306	3.00	-0.12	0.85	0.12	-0.13	0.73	0.11	-0.30	1.43
		-0.08	0.06		-0.01	0.01		-0.01	0.01



ALP Program - Participant Web Summary Report - Cycle 01

	SRW0601			SRW0602			SRW0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6327	3.16	0.12	0.77	0.14	0.13	0.07	0.14	0.30	0.95
		0.08	0.05		0.01	0.00		0.01	0.01
6330	3.78	1.04		0.33	2.69		0.16	0.97	
		0.70			0.20			0.04	0.00
6335	2.70	-0.56	1.91	0.08	-0.57	1.94	0.06	-1.75	1.24
		-0.38	0.13		-0.04	0.02		-0.06	0.01
Grand Median		3.08			0.13			0.12	
Median Abs Dev		0.46			0.05			0.02	
Avg Within Lab SD		0.07			0.01			0.01	
Labs Included		6			6			6	
Labs Reporting		6			6			6	

Na (305)			in the Cations Property Group						Data units: mmol/L
6278	1.67	0.61	0.38	-0.02			36.61	0.64	
		0.07		0.00				1.75	0.00
6304	1.54	-0.45	0.42	0.38	0.02	0.18	30.43	-1.63	0.86
		-0.05	0.01		0.00	0.00		-4.43	0.45
6306	1.59	-0.03	0.00	0.25	-1.57	0.67	33.54	-0.49	0.37
		0.00	0.00		-0.13	0.01		-1.32	0.19
6327	1.60	0.03	1.39	0.39	0.08	0.44	36.36	0.55	1.82
		0.00	0.03		0.01	0.01		1.50	0.95
6330	1.83	2.00		0.48	1.24		33.87	-0.37	
		0.24			0.10			-0.99	0.00
6335	1.48	-0.93	1.70	0.29	-1.11	2.08	35.85	0.37	0.91
		-0.11	0.04		-0.09	0.04		0.99	0.47
Grand Median		1.59			0.38			34.86	
Median Abs Dev		0.08			0.05			1.83	
Avg Within Lab SD		0.02			0.02			0.52	
Labs Included		6			6			6	
Labs Reporting		6			6			6	

K (306)			in the Cations Property Group						Data units: mmol/L
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ALP Program - Participant Web Summary Report - Cycle 01

	SRW0601			SRW0602			SRW0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6278	0.07	-0.27 0.00		0.02	-0.28 0.00		0.03	0.08 0.00	0.00
6304	0.08	0.27 0.00	0.27 0.00	0.06	2.01 0.03	0.13 0.00	0.07	1.50 0.04	0.73 0.00
6306	0.07	-0.60 -0.01	1.57 0.01	0.01	-0.90 -0.02	0.00 0.00	0.03	-0.08 0.00	0.94 0.01
6327	0.07	-0.62 -0.01	0.16 0.00	0.02	-0.29 0.00	0.13 0.00	0.02	-0.22 -0.01	0.19 0.00
6330	0.10	1.58 0.02		0.03	0.28 0.00		0.01	-0.76 -0.02	0.00
6335	0.09	0.71 0.01	1.57 0.01	0.03	0.28 0.00	2.23 0.01	0.06	1.41 0.03	1.88 0.01
Grand Median		0.08			0.03			0.03	
Median Abs Dev		0.01			0.01			0.02	
Avg Within Lab SD		0.00			0.00			0.01	
Labs Included		6			6			6	
Labs Reporting		6			6			6	

NH4-N (307)		in the Cations Property Group			Data units: mmolc/L
6278	0.02				
6330	0.25	0.24	0.25	0.00	
6335	0.02	0.01	0.01	1.00 0.00	
Grand Median		0.02	0.13	0.13	
Median Abs Dev				0.12	
Avg Within Lab SD				0.00	
Labs Included		3	2	2	
Labs Reporting		3	2	2	

Sum Cations (308)		in the Cations Property Group			Data units: mmolc/L
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ALP Program - Participant Web Summary Report - Cycle 01

	SRW0601			SRW0602			SRW0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6278	8.86	0.26 0.18		1.06	0.01 0.00		37.14	0.48 0.76	0.00
6306	8.45	-0.34 -0.24	1.12 0.18	0.83	-0.78 -0.22	1.80 0.06	33.88	-1.57 -2.50	0.41 0.23
6327	8.55	-0.20 -0.14	0.57 0.09	1.05	0.00 0.00	0.59 0.02	36.75	0.24 0.38	1.76 0.96
6330	10.45	2.57 1.77		1.59	1.89 0.54		34.64	-1.09 -1.74	0.00
6335	8.68	0.00 0.00	1.55 0.25	0.86	-0.69 -0.20	0.65 0.02	36.38	0.00 0.00	0.86 0.47
Grand Median		8.68			1.05			36.38	
Median Abs Dev		0.46			0.19			1.07	
Avg Within Lab SD		0.16			0.04			0.55	
Labs Included		5			5			5	
Labs Reporting		5			5			5	

SAR (309)			in the Cations Property Group			Data units:			
6278	0.88	0.10 0.00		0.66	0.12 0.01		73.23	-0.19 -2.40	0.00
6306	0.90	0.56 0.02	0.00 0.00	0.50	-2.12 -0.15		85.63	0.79 10.00	1.03 3.00
6327	0.86	-0.47 -0.02	2.00 0.02	0.68	0.42 0.03	0.17 0.01	85.19	0.75 9.56	1.54 4.46
6330	0.88	0.00 0.00		0.65	0.00 0.00		54.83	-1.64 -20.80	0.00
6335	0.80	-2.25 -0.08	0.00 0.00	0.60	-0.71 -0.05	1.72 0.10	75.63	0.00 0.00	0.76 2.20
Grand Median		0.88			0.65			75.63	
Median Abs Dev		0.02			0.05			8.55	
Avg Within Lab SD		0.01			0.06			2.91	
Labs Included		5			5			5	
Labs Reporting		5			5			5	



ALP Program - Participant Web Summary Report - Cycle 01

SRW0601

Sample Mean	Z Score	k Score
Difference	W/L	STD

SRW0602

Sample Mean	Z Score	k Score
Difference	W/L	STD

SRW0603

Sample Mean	Z Score	k Score
Difference	W/L	STD

Adj-SAR (310)	in the Cations Property Group						Data units:
6306	1.00			0.30		26.93	1.41 0.12
6330	1.84			0.65		102.33	0.00
Grand Median	1.42			0.48		64.63	
Median Abs Dev						37.70	
Avg Within Lab SD						0.08	
Labs Included				2		2	
Labs Reporting				2		2	

HCO3 (311)	in the Anions Property Group						Data units: mmolc/L
6278	2.70	0.74 0.21		0.75	0.26 0.03	34.60	0.71 4.67 0.00
6306	2.49	0.00 0.00	1.97 0.21	0.72	0.00 0.00	29.93	1.97 0.09 0.00 0.21
6327	2.10	-1.38 -0.39	0.00 0.00	0.57	-1.16 -0.15	24.71	0.00 0.00 -0.80 -5.22
6330	2.39	-0.35 -0.10		0.54	-1.40 -0.18	23.20	-1.03 0.00 -6.73
6335	2.74	0.90 0.25	0.33 0.04	0.79	0.55 0.07	35.43	0.33 0.02 0.84 5.50 1.07 0.13
Grand Median	2.49	0.19	0.11	0.72	0.09	29.93	4.42
Median Abs Dev							
Avg Within Lab SD							
Labs Included				5		5	
Labs Reporting				5		5	

CO3 (312)	in the Anions Property Group			Data units: mmolc/L
6278				1.00 -0.26 -2.47 0.00



ALP Program - Participant Web Summary Report - Cycle 01

SRW0603

	Sample Mean	Z Score	k Score		Sample Mean	Z Score	k Score		Sample Mean	Z Score	k Score
		Difference	W/L STD			Difference	W/L STD			Difference	W/L STD
6306					3.47	0.00	1.95				
						0.00	0.52				
6327					11.17	0.80	0.00				
						7.70	0.00				
6330					23.20	2.05					
						19.73	0.00				
6335					0.87	-0.27	0.43				
						-2.60	0.12				
Grand Median						3.47					
Median Abs Dev						6.50					
Avg Within Lab SD						0.27					
Labs Included		0			0		5				
Labs Reporting		0			0		5				

Cl (313)		in the Anions Property Group						Data units: mmolc/L			
6278	0.46	0.68		0.26	0.39		0.29	0.38			
		0.11			0.05			0.06	0.00		
6304	0.00	-2.22	0.04	0.00	-1.76	0.00	0.00	-1.39	0.02		
		-0.35	0.00		-0.21	0.00		-0.22	0.00		
6306	0.36	0.04	1.79	0.20	-0.11	2.08	0.28	0.35	2.06		
		0.01	0.03		-0.01	0.05		0.06	0.05		
6327	0.34	-0.04	0.36	0.22	0.11	0.26	0.16	-0.39	0.23		
		-0.01	0.01		0.01	0.01		-0.06	0.01		
6330	0.27	-0.51		0.15	-0.50		0.17	-0.35			
		-0.08			-0.06			-0.06	0.00		
6335	0.44	0.55	1.29	0.35	1.18	0.78	0.42	1.20	0.83		
		0.09	0.02		0.14	0.02		0.19	0.02		
Grand Median		0.35			0.21			0.23			
Median Abs Dev		0.11			0.08			0.11			
Avg Within Lab SD		0.02			0.02			0.03			
Labs Included		6			6			6			
Labs Reporting		6			6			6			



ALP Program - Participant Web Summary Report - Cycle 01

SRW0601

Sample Mean	Z Score	k Score
Difference W/L STD		

SRW0602

Sample Mean	Z Score	k Score
Difference W/L STD		

SRW0603

Sample Mean	Z Score	k Score
Difference W/L STD		

NO3 (314)	in the Anions Property Group						Data units: mmol/L
6278	0.01			0.01	0.01	0.00	0.50
						0.00	0.00
6304	0.03			0.05	0.04	1.57	2.18
						0.03	0.00
6306					0.01	-0.23	0.00
						0.00	0.00
6327	0.01			0.02	0.01	-0.23	0.00
						0.00	0.00
6330	0.03			0.04	0.04	1.35	
						0.03	0.00
Grand Median	0.02			0.03		0.01	
Median Abs Dev						0.01	
Avg Within Lab SD						0.00	
Labs Included	4			4		5	
Labs Reporting	4			4		5	

SO4 (315)	in the Anions Property Group						Data units: mmol/L		
6278	5.79	0.13		0.11	0.28	0.71	0.10	0.04	1.99
		0.20			0.02	0.00		0.02	0.01
6304	2.28	-2.15	0.08	0.02	-0.69	0.37	0.01	-0.15	0.60
		-3.31	0.01		-0.06	0.00		-0.07	0.00
6306	5.39	-0.13	1.21	0.07	-0.19	2.07	0.06	-0.05	1.30
		-0.20	0.17		-0.02	0.01		-0.02	0.01
6327	6.26	0.43	0.08	0.10	0.19	0.00	0.10	0.05	0.00
		0.67	0.01		0.02	0.00		0.02	0.00
6330	6.40	0.53		0.29	2.39		1.65	3.70	
		0.81			0.21			1.57	0.00
6335	4.56	-0.67	1.88	0.06	-0.31	1.04	0.06	-0.04	0.00
		-1.03	0.27		-0.03	0.01		-0.02	0.00



ALP Program - Participant Web Summary Report - Cycle 01

	SRW0601			SRW0602			SRW0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	5.59			0.08			0.08		
Median Abs Dev	1.04			0.06			0.29		
Avg Within Lab SD	0.14			0.01			0.00		
Labs Included	6			6			6		
Labs Reporting	6			6			6		

Sum Anions (316)				in the Anions Property Group						Data units: mmolc/L
6278	8.95	0.41		1.12	0.80		36.00	-0.03		
		0.25			0.10			-0.16	0.00	
6306	8.24	-0.75	1.55	0.98	-0.31	1.95	33.75	-0.53	1.99	
		-0.46	0.35		-0.04	0.03		-2.41	0.68	
6327	8.70	0.00	0.04	0.90	-0.91	0.32	36.16	0.00	0.03	
		0.00	0.01		-0.12	0.01		0.00	0.01	
6330	9.09	0.64		1.02	0.00		48.26	2.67		
		0.39			0.00			12.10	0.00	
6335	7.73	-1.57	1.26	1.19	1.35	0.32	36.78	0.14	0.24	
		-0.97	0.29		0.17	0.01		0.62	0.08	
Grand Median	8.70			1.02			36.16			
Median Abs Dev	0.41			0.09			3.06			
Avg Within Lab SD	0.23			0.02			0.34			
Labs Included	5			5			5			
Labs Reporting	5			5			5			

Cation-Anion Difference (317)					Data units:
6306	0.21		0.15	0.31	0.92
					0.31
6327	0.15		0.15	0.92	1.34
					0.45
6330	1.36		0.57	-13.62	0.00
					1.16
6335	0.95		-0.34	-0.40	0.38



ALP Program - Participant Web Summary Report - Cycle 01

	SRW0601			SRW0602			SRW0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	0.58			0.15			-0.05		
Median Abs Dev							3.81		
Avg Within Lab SD							0.33		
Labs Included	4			4			4		
Labs Reporting	4			4			4		

Boron (318)										Data units: mg/L
6278	0.06	0.03		0.01	0.00					
		0.00			0.00					
6304	0.01	-0.68	0.00	0.01	0.00	0.00	0.01	-0.05	0.00	
		-0.05	0.00		0.00	0.00		-0.01	0.00	
6306	0.24	2.64	2.22	0.21	2.33	2.00	0.16	1.10	2.20	
		0.19	0.06		0.20	0.09		0.14	0.03	
6327	0.06	-0.03	0.13				0.01	-0.03	0.20	
		0.00	0.00					0.00	0.00	
6330	0.10	0.60		0.10	1.05		0.30	2.18		
		0.04			0.09			0.28	0.00	
6335	0.05	-0.07	0.20	0.01	0.00	0.00	0.02	0.00	0.37	
		0.00	0.01		0.00	0.00		0.00	0.01	
Grand Median	0.06			0.01			0.02			
Median Abs Dev	0.05			0.06			0.09			
Avg Within Lab SD	0.03			0.04			0.02			
Labs Included	6			5			5			
Labs Reporting	6			5			5			

PO4-P Phosphorus - Spec (319)										Data units: mg/L
6278	0.02						0.02		0.00	



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SRW0601

Sample Mean	Z Score	k Score
	Difference	W/L STD

SRW0603

Sample Mean	Z Score	k Score
	Difference	W/L STD

Grand Median	0.02	0.02
Median Abs Dev		
Avg Within Lab SD		0.00
Labs Included	1	0
Labs Reporting	1	0

Phosphorus - ICP (Total) (320)

Data units: mg/L

6304	0.02	0.03	0.02	0.14
				0.00
6327	0.02	0.08	0.08	1.73
				0.01
6330	0.01	0.40	0.10	0.00

Grand Median	0.02	0.08	0.08
Median Abs Dev			0.03
Avg Within Lab SD			0.00
Labs Included	3	3	3
Labs Reporting	3	3	3

Nitrogen Combustion (Total) (322)

Data units: mg/L

6304	0.01	0.01	0.01	1.00
				0.00
Grand Median	0.01	0.01	0.01	
Median Abs Dev				
Avg Within Lab SD				0.00
Labs Included	1	1	1	
Labs Reporting	1	1	1	

Total Organic Carbon (323)

Data units: mg/L

6327	8.18	2.47	6.20	1.00
				0.51



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	SRW0601			SRW0602			SRW0603		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
Grand Median		8.18			2.47			6.20	
Median Abs Dev									
Avg Within Lab SD							0.51		
Labs Included		1			1			1	
Labs Reporting		1			1			1	



Source: miller

Homogeneity Evaluation

SRS material homogeneity was evaluated based on pH (1:1 H₂O), EC (1:1), P Olsen, K NH₄oAC and DTPA micro-nutrients. Six replicates samples of each soil material were selected and each replicate analyzed in triplicate by an independent laboratory. Results for homogeneity (See Table 1) indicate no significant differences within each soil material for all analytical test methods evaluated. Homogeneity was also evaluated on SRS and SRW samples.

Table 1. Homogeneity evaluation of SRS materials, ALP Demonstration Round 1, 2006.

Sample	pH (1:1) H ₂ O		NO ₃ -N (mg kg ⁻¹)		P - Olsen (mg kg ⁻¹)	
	Mean ¹	Std	Mean	Std	Mean	Std
SRS0601	5.40	0.013	18.6	0.30	9.6	0.8
SRS0602	6.04	0.060	36.9	0.51	29.5	1.5
SRS0603	6.74	0.007	10.0	0.46	39.6	1.7
SRS0604	7.71	0.012	28.2	0.50	16.2	0.6
SRS0605	8.00	0.009	3.1	0.16	12.1	0.7

¹ Statistics based on six soil replicates, analyzed in triplicate.

“homogeneity indicate no significant differences within each soil material”