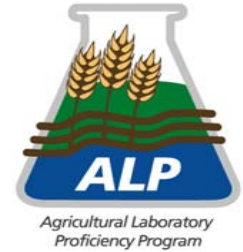


ALP Program

Participant Web Summary Report

2008 Round #7



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 Fall 2008 Round was completed November 14, 2008, with results provided by thirty-eight labs from the United States and Canada. Proficiency samples consisted of five soils, three botanical and three water samples. Analytical methods evaluated are based on those published by AOAC, four regional soil work groups, the Soil Plant Analysis Council and Forestry Canada.



Standard Reference Soils (SRS), materials used for the soils and environmental programs were collected from: Louisville, Nebraska; Independence, Iowa; Casa Grande, Arizona; Illiff, Colorado; and Fairbury, Illinois. Soil textures ranging from loamy sand to silt loam. Standard Reference Botanical (SRB) materials were: cherry leaves, basil leaves and grape petioles. Standard Reference Water (SRW) solutions represent agriculture water collected from Colorado and Nebraska.

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 4 reported results.

Special Topics:

Discussion of Statistics in ALP Reports.

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

ALP Program - Participant Web Summary Report - Cycle 07



SRS0811

Sample Mean Z Score k Score
Difference W/L STD

SRS0812

Sample Mean Z Score k Score
Difference W/L STD

SRS0813

Sample Mean Z Score k Score
Difference W/L STD

SRS0814

Sample Mean Z Score k Score
Difference W/L STD

SRS0815

Sample Mean Z Score k Score
Difference W/L STD

Soil Properties

Saturated Paste Moisture (101)

in the Salinity Property Groups

Data units: Percent

6276	40.7	-0.33	0.44	19.2	-1.18	0.19	24.4	-0.57	0.44	39.9	-0.25	0.84	30.6	-0.44	1.14
		-1.5	0.6		-4.1	0.3		-2.6	0.4		-2.4	1.2		-2.7	1.5
6283	43.6	0.31	0.05	22.3	-0.30	0.17	27.2	0.06	0.15	42.3	-0.01	0.60	33.3	0.00	0.40
		1.4	0.1		-1.0	0.3		0.3	0.2		-0.1	0.9		0.0	0.5
6291	45.6	0.73	1.92	23.3	0.00	0.86	31.1	0.91	0.79	56.5	1.45	1.31	39.9	1.05	1.37
		3.4	2.5		0.0	1.4		4.1	0.8		14.1	1.9		6.5	1.8
6306	39.7	-0.55	0.45	23.7	0.10	1.31	25.7	-0.29	1.13	41.3	-0.11	1.06	32.7	-0.11	1.19
		-2.5	0.6		0.3	2.1		-1.3	1.2		-1.0	1.5		-0.7	1.5
6327	46.9	1.02	0.55	29.9	1.89	0.35	34.3	1.62	0.82	46.4	0.41	0.80	45.0	1.86	0.31
		4.7	0.7		6.6	0.6		7.3	0.8		4.0	1.2		11.6	0.4
6330	41.5	-0.15	0.54	20.4	-0.85	1.30	24.5	-0.55	0.91	36.8	-0.58	0.21	28.8	-0.73	0.94
		-0.7	0.7		-3.0	2.1		-2.5	0.9		-5.6	0.3		-4.5	1.2
6334	37.4	-1.05	0.24	19.5	-1.08	0.36	23.6	-0.75	0.54	40.8	-0.16	0.39	35.4	0.33	0.80
		-4.9	0.3		-3.8	0.6		-3.4	0.5		-1.6	0.6		2.0	1.0
6335	38.2	-0.86	0.32	20.3	-0.86	0.18	25.7	-0.27	0.69	36.9	-0.56	0.12	30.5	-0.45	0.43
		-4.0	0.4		-3.0	0.3		-1.2	0.7		-5.5	0.2		-2.8	0.6
6382	42.2	0.00	0.54	23.6	0.09	1.46	27.0	0.00	1.20	42.4	0.00	1.04	32.7	-0.10	0.74
		0.0	0.7		0.3	2.3		0.0	1.2		0.0	1.5		-0.6	1.0
6401	47.6	1.16	0.53	23.1	-0.08	0.07	31.1	0.91	0.15	57.1	1.51	0.48	38.6	0.85	0.31
		5.4	0.7		-0.3	0.1		4.1	0.2		14.7	0.7		5.3	0.4
6407	42.6	0.08	1.37	23.9	0.15	1.94	26.6	-0.09	1.53	43.7	0.13	0.56	32.5	-0.14	0.44
		0.4	1.8		0.5	3.1		-0.4	1.6		1.3	0.8		-0.9	0.6
6408	52.0	2.12	0.78	25.7	0.67	0.36	35.7	1.93	0.57	63.0	2.12	0.69	45.3	1.92	1.96
		9.8	1.0		2.3	0.6		8.7	0.6		20.6	1.0		12.0	2.5
6409	42.2	-0.01	0.70	25.9	0.72	0.55	28.3	0.29	0.50	54.7	1.27	0.59	40.6	1.17	1.21
		0.0	0.9		2.5	0.9		1.3	0.5		12.3	0.9		7.3	1.6
6516	49.7	1.61	1.34	30.8	2.14	1.81	34.9	1.75	1.24	58.5	1.66	0.83	40.0	1.06	0.52
		7.5	1.7		7.5	2.9		7.9	1.3		16.2	1.2		6.6	0.7
6620	41.1	-0.24	0.49	22.5	-0.24	0.44	26.2	-0.17	0.78	42.0	-0.04	0.60	33.1	-0.04	0.32
		-1.1	0.6		-0.8	0.7		-0.8	0.8		-0.4	0.9		-0.3	0.4
6626	40.7	-0.33	0.45	21.0	-0.67		23.7	-0.73	0.57	37.3	-0.52	0.40	29.3	-0.64	0.45
		-1.5	0.6		-2.3			-3.3	0.6		-5.0	0.6		-4.0	0.6
6714	46.5	0.93	2.52	25.0	0.47	1.64	29.6	0.59	2.40	49.1	0.69	2.93	37.0	0.58	1.93
		4.3	3.2		1.6	2.6		2.7	2.4		6.8	4.2		3.7	2.5
Grand Median		42.2			23.3			27.0			42.4			33.3	
Median Abs Dev		2.5			2.3			2.6			5.0			3.7	
Avg Within Lab SD		1.3			1.6			1.0			1.4			1.3	
Labs Included		17			17			17			17			17	
Labs Reporting		17			17			17			17			17	

ALP Program - Participant Web Summary Report - Cycle 07



	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
pH - sp (102) in the Salinity Property Groups															
													Data units: Unit		
6283	5.97	0.22	0.61	6.69	-0.02	0.06	7.31	-0.17	0.50	7.62	-0.73	0.26	7.11	0.11	0.77
		0.06	0.05		-0.01	0.01		-0.03	0.04		-0.12	0.02		0.03	0.07
6291	5.86	-0.15	1.61	6.50	-0.62	1.11	7.31	-0.17	1.06	7.71	-0.20	2.61	7.06	-0.11	0.71
		-0.04	0.13		-0.20	0.10		-0.03	0.08		-0.03	0.21		-0.03	0.06
6306	6.08	0.62	1.41	7.07	1.17	3.05	7.54	1.04	0.87	7.83	0.52	0.07	7.16	0.34	0.23
		0.18	0.11		0.37	0.28		0.20	0.06		0.09	0.01		0.08	0.02
6327	6.53	2.20	2.58	7.03	1.05	0.64	7.30	-0.22	1.40	7.30	-2.62	2.15	7.47	1.67	2.68
		0.63	0.21		0.33	0.06		-0.04	0.10		-0.44	0.17		0.39	0.23
6334	6.04	0.48	0.33	6.87	0.52	0.32	7.53	0.97	0.35	7.84	0.58	0.50	7.06	-0.08	0.64
		0.14	0.03		0.17	0.03		0.19	0.03		0.10	0.04		-0.02	0.06
6335	5.63	-0.94	0.72	6.33	-1.15	0.64	7.37	0.13	0.81	7.77	0.16	0.72	7.03	-0.21	0.67
		-0.27	0.06		-0.37	0.06		0.03	0.06		0.03	0.06		-0.05	0.06
6381	5.81	-0.33		6.32	-1.19		7.31	-0.17		7.74	0.00		7.00	-0.35	
		-0.09			-0.38			-0.03			0.00			-0.08	
6382	5.66	-0.86	1.47	6.29	-1.30	1.29	7.17	-0.90	0.64	7.57	-0.99	0.73	6.76	-1.38	0.13
		-0.25	0.12		-0.41	0.12		-0.17	0.05		-0.17	0.06		-0.32	0.01
6383	5.83	-0.24	0.75	6.75	0.16	0.88	7.61	1.39	0.49	7.74	0.00	0.50	7.17	0.38	1.83
		-0.07	0.06		0.05	0.08		0.27	0.04		0.00	0.04		0.09	0.16
6401	6.00	0.34		6.70	0.00	0.00	7.30	-0.22	0.00	7.77	0.16	0.72	6.87	-0.93	0.67
		0.10			0.00	0.00		-0.04	0.00		0.03	0.06		-0.22	0.06
6407	5.80	-0.36	0.00	6.70	0.00	0.00	7.50	0.83		7.80	0.36	0.00	7.10	0.08	0.00
		-0.10	0.00		0.00	0.00		0.16			0.06	0.00		0.02	0.00
6408	6.31	1.41	0.38	6.95	0.79	0.22	7.65	1.60	0.08	7.85	0.67	0.40	7.46	1.66	0.13
		0.40	0.03		0.25	0.02		0.31	0.01		0.11	0.03		0.38	0.01
6409	5.90	-0.01	0.00	6.77	0.21	0.64	7.50	0.83		7.90	0.95	0.00	7.13	0.22	1.34
		0.00	0.00		0.07	0.06		0.16			0.16	0.00		0.05	0.12
6516	6.45	1.92	0.59	6.94	0.75	0.58	7.32	-0.13	3.08	7.67	-0.44	1.43	7.27	0.83	0.60
		0.55	0.05		0.24	0.05		-0.03	0.22		-0.07	0.12		0.19	0.05
6620	5.91	0.01	0.72	6.62	-0.26	0.97	7.40	0.31	0.49	7.70	-0.22	0.36	6.98	-0.44	0.76
		0.00	0.06		-0.08	0.09		0.06	0.03		-0.04	0.03		-0.10	0.07
6626	5.70	-0.72	0.26	6.19	-1.60	0.59	7.01	-1.72	0.84	7.37	-2.20	0.33	6.62	-1.99	0.48
		-0.21	0.02		-0.51	0.05		-0.33	0.06		-0.37	0.03		-0.46	0.04
Grand Median	5.90			6.70			7.34			7.74			7.08		
Median Abs Dev	0.12			0.22			0.11			0.08			0.09		
Avg Within Lab SD	0.08			0.09			0.07			0.08			0.09		
Labs Included	16			16			16			16			16		
Labs Reporting	16			16			16			16			16		

ECe - sp (103)

in the Salinity Property Groups

Data units: dS/m

ALP Program - Participant Web Summary Report - Cycle 07



	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6276	0.86	0.21	0.31	0.59	0.60	1.11	2.93	1.22	0.23	5.45	0.58	0.49	1.09	0.69	0.81
6283	0.83	0.03	0.03	0.48	0.07	0.06	2.50	0.48	0.04	4.70	0.38	0.11	1.05	0.10	0.05
6291	1.07	0.00	0.26	0.48	-0.29	0.29	2.50	0.13	0.17	4.70	-0.57	0.22	1.05	0.39	1.56
6306	0.55	0.00	0.03	0.85	-0.03	0.02	3.29	0.05	0.03	5.72	-0.37	0.05	0.93	0.06	0.10
6327	0.80	1.67	1.29	0.85	2.89	3.16	3.29	2.12	1.78	5.72	1.00	1.53	0.93	-0.45	2.49
6330	0.93	0.24	0.13	0.37	0.34	0.17	1.94	0.84	0.28	3.88	0.65	0.34	0.89	-0.07	0.15
6334	0.70	-2.00	0.38	0.37	-1.23	1.05	1.94	-1.28	1.24	3.88	-1.82	0.55	0.89	-0.69	1.08
6335	0.98	-0.29	0.04	0.50	-0.14	0.06	2.06	-0.51	0.19	4.92	-1.18	0.12	0.95	-0.10	0.07
6381	0.85	-0.26	0.58	0.50	-0.11	0.58	2.06	-0.98	0.73	4.92	-0.23	2.20	0.95	-0.30	1.40
6382	0.81	-0.04	0.06	0.62	-0.01	0.03	2.79	-0.39	0.11	5.31	-0.15	0.49	1.16	-0.04	0.09
6383	0.37	0.65	0.33	0.62	0.86	0.77	2.79	0.86	0.57	5.31	0.37	0.87	1.16	1.13	1.48
6401	0.92	0.09	0.03	0.39	0.10	0.04	2.38	0.34	0.09	4.55	0.24	0.19	0.88	0.16	0.09
6407	0.85	-0.93	0.10	0.39	-1.08	0.19	2.38	-0.18	0.17	4.55	-0.79	0.20	0.88	-0.78	0.43
6408	0.82	-0.13	0.01	0.67	-0.13	0.01	2.85	-0.07	0.03	5.45	-0.52	0.04	1.21	-0.11	0.03
6409	0.89	1.00	0.06	0.67	1.28	0.11	2.85	1.00	0.13	5.45	0.59	0.12	1.21	1.47	0.19
6516	0.81	0.14	0.01	0.58	0.15	0.01	2.55	0.40	0.02	5.07	0.38	0.03	1.15	0.21	0.01
6620	0.72	0.12	0.01	0.58	0.54		2.55	0.25		5.07	0.01		1.15	1.08	
6626	0.85	-0.19	0.94	0.53	0.11	0.19	2.25	0.10	1.26	5.14	0.11	0.51	1.03	0.23	0.58
6714	0.79	-0.03	0.09	0.53	0.01	0.01	2.25	-0.50	0.20	5.14	0.07	0.12	1.03	0.03	0.04
		-3.23	0.88	0.54	0.17	1.64	2.20	-0.63	2.90	4.32	-1.15	2.06	0.84	-1.07	0.68
		-0.46	0.09	0.54	0.02	0.09	2.20	-0.25	0.45	4.32	-0.75	0.46	0.84	-0.15	0.04
		0.63	3.84	0.41	-0.88	0.77	2.27	-0.45	0.91	4.28	-1.21	0.95	0.82	-1.20	0.71
		0.09	0.38	0.41	-0.10	0.04	2.27	-0.18	0.14	4.28	-0.79	0.21	0.82	-0.17	0.04
		0.09	0.06	0.48	-0.31	0.33	2.60	0.38	0.00	4.53	-0.82	0.26	0.92	-0.48	0.09
		0.01	0.01	0.48	-0.04	0.02	2.60	0.15	0.00	4.53	-0.53	0.06	0.92	-0.07	0.01
		-0.10	0.12	0.52	0.04	0.34	2.25	-0.50	0.51	5.12	0.08	0.64	0.91	-0.60	0.20
		-0.01	0.01	0.52	0.00	0.02	2.25	-0.20	0.08	5.12	0.05	0.14	0.91	-0.09	0.01
		0.37	0.12	0.56	0.40	0.61	2.45	0.00	0.45	4.63	-0.66	1.03	1.00	0.07	1.37
		0.05	0.01	0.56	0.05	0.03	2.45	0.00	0.07	4.63	-0.43	0.23	1.00	0.01	0.08
		-0.13	0.06	0.47	-0.38	0.55	2.23	-0.55	0.28	5.34	0.41	1.56	1.03	0.23	0.55
		-0.02	0.01	0.47	-0.04	0.03	2.23	-0.22	0.04	5.34	0.27	0.35	1.03	0.03	0.03
		-0.81	0.26	0.39	-1.11	0.67	2.37	-0.21	1.15	4.44	-0.96	0.37	0.88	-0.78	0.43
		-0.12	0.03	0.39	-0.13	0.04	2.37	-0.08	0.18	4.44	-0.63	0.08	0.88	-0.11	0.03
		0.12	0.00	0.52	0.00	0.44	2.90	1.13	0.33	6.02	1.46	0.47	1.16	1.17	0.62
		0.02	0.00	0.52	0.00	0.02	2.90	0.45	0.05	6.02	0.95	0.11	1.16	0.17	0.04
		-0.33	0.22	0.46	-0.52	0.90	2.63	0.46	0.74	5.07	0.00	0.80	0.99	0.00	0.24
		-0.05	0.02	0.46	-0.06	0.05	2.63	0.18	0.12	5.07	0.00	0.18	0.99	0.00	0.01
Grand Median		0.83			0.52			2.45			5.07			0.99	
Median Abs Dev		0.05			0.06			0.20			0.38			0.10	
Avg Within Lab SD		0.10			0.05			0.16			0.22			0.06	
Labs Included		19			19			19			19			19	
Labs Reporting		19			19			19			19			19	

ALP Program - Participant Web Summary Report - Cycle 07



	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	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
HCO₃-sp (104) in the Salinity Property Groups															
	Data units: mmolc/L														
6276	1.19	0.80	0.68	2.69	1.42	2.73	2.51	0.94	1.14	2.97	1.05	1.68	3.57	1.24	1.50
		0.29	0.19		1.78	0.55		1.12	0.16		1.40	0.28		1.73	0.31
6306	0.31	-1.61	0.00	0.31	-0.48	0.00	0.94	-0.38	0.00	1.57	0.00	0.00	1.84	0.00	1.57
		-0.59	0.00		-0.60	0.00		-0.45	0.00		0.00	0.00		0.00	0.32
6327	0.16	-2.03		0.49	-0.34		0.79	-0.50		1.20	-0.28		1.48	-0.26	
		-0.74			-0.43			-0.60			-0.37			-0.36	
6330	1.00	0.27		1.23	0.25	0.29	1.53	0.12	0.42	1.67	0.07	0.35	2.10	0.19	0.84
		0.10			0.32	0.06		0.14	0.06		0.10	0.06		0.26	0.17
6334	1.17	0.73	0.10	2.16	0.99	0.40	2.88	1.24	0.19	3.56	1.51	0.39	3.49	1.19	0.21
		0.27	0.03		1.24	0.08		1.49	0.03		1.99	0.06		1.65	0.04
6335	0.87	-0.08	0.15	0.58	-0.27	0.50	1.25	-0.12	0.37	1.45	-0.09	0.41	1.84	0.00	0.33
		-0.03	0.04		-0.34	0.10		-0.14	0.05		-0.12	0.07		0.00	0.07
6382	1.07	0.46	2.87	0.60	-0.25	0.99	0.93	-0.38	0.84	1.33	-0.18	1.41	1.73	-0.08	2.01
		0.17	0.81		-0.32	0.20		-0.46	0.12		-0.24	0.23		-0.11	0.42
6401	0.90	0.00	0.35	2.39	1.17	0.99	2.69	1.08	1.93	3.05	1.12	1.84	3.91	1.49	1.00
		0.00	0.10		1.47	0.20		1.30	0.26		1.48	0.30		2.07	0.21
6407										0.92	-0.49	0.12	1.09	-0.54	0.18
											-0.65	0.02		-0.75	0.04
6409				0.43	-0.39	0.23	0.96	-0.36	1.02	1.19	-0.29	0.62	1.41	-0.31	0.60
					-0.48	0.05		-0.44	0.14		-0.38	0.10		-0.43	0.13
6626	0.87	-0.09	0.41	2.40	1.18	0.00	3.33	1.62	1.69	4.67	2.34	1.41	4.80	2.13	0.00
		-0.03	0.12		1.48	0.00		1.94	0.23		3.10	0.23		2.96	0.00
Grand Median		0.90			0.92			1.39			1.57			1.84	
Median Abs Dev		0.17			0.54			0.53			0.38			0.43	
Avg Within Lab SD		0.28			0.20			0.14			0.16			0.21	
Labs Included		9			10			10			11			11	
Labs Reporting		9			10			10			11			11	

Ca - sp (105) in the Salinity Property Groups															
Data units: mmolc/L															
6276	5.36	0.97	0.10	3.63	1.34	0.93	12.33	1.43	0.20	25.3	1.13	0.37	9.41	0.91	0.10
		0.79	0.08		0.85	0.33		3.09	0.18		4.0	0.8		1.47	0.08
6283	4.57	0.00	0.53	2.72	-0.09	0.43	10.87	0.76	1.09	23.3	0.57	0.46	8.44	0.30	0.43
		0.00	0.38		-0.06	0.15		1.64	1.01		2.1	1.0		0.49	0.34
6306	4.07	-0.61	1.10	2.51	-0.43	0.61	8.08	-0.53	0.98	18.5	-0.76	0.33	6.97	-0.60	1.07
		-0.50	0.80		-0.27	0.22		-1.15	0.90		-2.7	0.7		-0.97	0.84
6327	3.44	-1.39	2.55	2.13	-1.04	3.03	5.96	-1.52	3.36	16.6	-1.30	3.64	5.55	-1.48	3.54
		-1.13	1.87		-0.65	1.08		-3.28	3.09		-4.6	7.9		-2.40	2.79
6330	5.24	0.83	0.94	3.56	1.24	1.74	11.13	0.88	0.70	22.9	0.47	0.85	8.69	0.46	1.16
		0.67	0.68		0.78	0.62		1.90	0.64		1.7	1.8		0.74	0.92

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6334	5.14	0.71	0.08	2.85	0.11	0.15	11.12	0.87	0.11	21.4	0.05	0.28	9.02	0.66	0.04
		0.57	0.06		0.07	0.06		1.88	0.10		0.2	0.6		1.07	0.03
6335	5.63	1.31	0.23	3.72	1.49	0.09	11.03	0.83	0.09	20.6	-0.17	0.25	8.78	0.52	0.12
		1.06	0.17		0.94	0.03		1.80	0.08		-0.6	0.5		0.84	0.10
6382	5.17	0.74	0.55	3.33	0.88	0.58	9.50	0.12	0.44	22.8	0.44	0.29	8.13	0.12	0.15
		0.60	0.40		0.55	0.21		0.27	0.40		1.6	0.6		0.19	0.12
6401	5.14	0.71	2.73	2.44	-0.53	0.37	8.30	-0.43	0.77	18.0	-0.90	0.81	6.27	-1.03	0.54
		0.57	2.00		-0.34	0.13		-0.94	0.70		-3.2	1.7		-1.67	0.42
6407	4.11	-0.57	0.22	2.20	-0.93	0.49	8.98	-0.12	0.54	17.3	-1.10	0.13	5.99	-1.21	0.00
		-0.46	0.16		-0.58	0.17		-0.25	0.50		-3.9	0.3		-1.96	0.00
6408	4.37	-0.24	0.34	2.81	0.05	0.43	9.12	-0.05	0.63	23.3	0.57	0.53	6.87	-0.66	0.10
		-0.20	0.25		0.03	0.15		-0.12	0.58		2.0	1.2		-1.07	0.08
6409	4.57	0.00	0.08	2.87	0.14	0.65	9.23	0.00	0.49	18.3	-0.81	1.07	6.80	-0.71	1.10
		0.00	0.06		0.09	0.23		0.00	0.45		-2.9	2.3		-1.14	0.87
6516	4.48	-0.11	0.13	2.70	-0.12	0.82	8.87	-0.17	0.19	22.2	0.26	0.31	8.19	0.15	0.14
		-0.09	0.09		-0.08	0.29		-0.36	0.18		0.9	0.7		0.25	0.11
6620	4.77	0.24	0.13	2.78	0.00	0.66	10.92	0.78	0.94	21.5	0.07	0.10	7.94	0.00	0.41
		0.20	0.09		0.00	0.23		1.68	0.86		0.2	0.2		0.00	0.32
6626	4.70	0.16	0.27	3.20	0.67	0.74	12.13	1.34	0.51	21.2	0.00	0.30	8.47	0.32	0.19
		0.13	0.20		0.42	0.26		2.90	0.47		0.0	0.6		0.52	0.15
6664	3.33	-1.53	0.00	1.72	-1.68	0.00	7.39	-0.85	0.00	13.9	-2.07	0.00	6.36	-0.98	0.00
		-1.24	0.00		-1.06	0.00		-1.84	0.00		-7.4	0.0		-1.58	0.00
6714	3.49	-1.33	0.07	2.31	-0.74	0.58	7.58	-0.76	0.28	18.4	-0.79	0.20	5.77	-1.34	0.19
		-1.08	0.05		-0.47	0.21		-1.65	0.26		-2.8	0.4		-2.17	0.15
Grand Median		4.57			2.78			9.23			21.2			7.94	
Median Abs Dev		0.57			0.42			1.65			2.1			1.07	
Avg Within Lab SD		0.73			0.36			0.92			2.2			0.79	
Labs Included		17			17			17			17			17	
Labs Reporting		17			17			17			17			17	

Mg - sp (106) in the Salinity Property Groups															
															Data units: mmolc/L
6276	2.00	0.14	0.18	0.93	0.77	1.20	3.48	0.43	0.16	11.7	0.88	0.20	2.03	0.20	0.50
		0.10	0.05		0.16	0.13		0.45	0.05		1.3	0.2		0.16	0.10
6283	1.74	-0.21	0.76	0.71	-0.30	0.72	3.09	0.06	1.35	10.7	0.15	0.55	1.75	-0.14	0.90
		-0.16	0.20		-0.06	0.08		0.06	0.39		0.2	0.6		-0.11	0.17
6306	1.18	-0.97	0.74	0.60	-0.79	0.53	2.34	-0.67	0.79	9.6	-0.62	0.55	1.67	-0.24	1.39
		-0.72	0.19		-0.17	0.06		-0.70	0.23		-0.9	0.6		-0.20	0.26
6327	0.97	-1.24	2.16	0.56	-1.00	2.85	1.77	-1.21	3.09	7.9	-1.83	3.56	1.20	-0.80	3.11
		-0.93	0.56		-0.21	0.30		-1.26	0.90		-2.6	3.6		-0.66	0.59
6330	2.14	0.32	0.81	1.19	1.98	1.69	3.53	0.48	1.06	11.3	0.54	0.83	2.28	0.50	1.06
		0.24	0.21		0.42	0.18		0.50	0.31		0.8	0.9		0.41	0.20

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6334	2.00	0.14	0.02	0.92	0.73	0.24	3.48	0.43	0.26	10.8	0.19	0.05	2.09	0.27	0.48
6335	2.22	0.10	0.01	1.01	0.15	0.03	3.58	0.45	0.08	10.5	0.3	0.1	2.16	0.22	0.09
6382	2.00	0.43	0.30	0.87	1.13	0.47	2.90	0.52	0.49	10.7	0.00	0.37	1.87	0.35	0.16
6401	2.03	0.32	0.08	0.77	0.24	0.05	2.76	0.54	0.14	8.8	0.0	0.4	1.52	0.29	0.03
6407	1.65	0.13	0.38	0.63	0.46	0.55	2.77	-0.13	0.34	8.5	0.13	0.31	1.37	0.00	0.30
6408	1.64	0.10	0.10	0.68	0.10	0.06	2.46	-0.13	0.10	10.4	0.2	0.3	1.48	0.00	0.06
6409	1.87	0.18	3.05	0.77	0.00	0.35	3.03	-0.26	0.59	9.4	-1.16	0.68	1.57	-0.42	0.41
6516	1.76	0.13	0.79	0.71	0.00	0.04	2.74	-0.27	0.17	11.5	-1.7	0.7	1.83	-0.35	0.08
6620	1.90	-0.34	0.32	0.95	-0.68	0.39	3.43	-0.25	0.43	10.6	-1.38	0.46	2.15	-0.60	0.50
6626	2.17	-0.25	0.08	1.10	-0.14	0.04	4.43	-0.26	0.13	12.0	-2.0	0.5	2.47	-0.50	0.10
6664	1.80	-0.35	0.32	0.72	-0.41	0.45	2.82	-0.55	0.56	9.3	-0.03	0.39	2.01	-0.47	0.00
6714	6.58	-0.26	0.08	0.82	-0.09	0.05	7.49	-0.57	0.16	8.9	0.0	0.4	6.69	-0.39	0.00
		-0.04	0.44		-0.02	0.55		0.00	0.40		-0.76	1.35		-0.36	1.09
		-0.03	0.12		0.00	0.06		0.00	0.12		-1.1	1.4		-0.30	0.21
		-0.19	0.26		-0.30	0.69		-0.28	0.20		0.74	0.23		-0.05	0.14
		-0.14	0.07		-0.06	0.07		-0.30	0.06		1.1	0.2		-0.04	0.03
		0.00	0.18		0.84	1.00		0.38	1.14		0.06	0.06		0.34	0.40
		0.00	0.05		0.18	0.10		0.40	0.33		0.1	0.1		0.28	0.08
		0.36	0.22		1.57	0.96		1.34	0.86		1.06	0.10		0.73	0.80
		0.27	0.06		0.33	0.10		1.40	0.25		1.5	0.1		0.60	0.15
		-0.13	0.00		-0.24	0.00		-0.20	0.00		-0.86			0.17	0.00
		-0.10	0.00		-0.05	0.00		-0.21	0.00		-1.2			0.14	0.00
		6.29	0.63		0.25	0.00		4.27	0.56		-1.08	0.17		5.84	0.66
		4.68	0.16		0.05	0.00		4.46	0.16		-1.5	0.2		4.83	0.13
Grand Median		1.90			0.77			3.03			10.5			1.87	
Median Abs Dev		0.16			0.14			0.45			1.1			0.29	
Avg Within Lab SD		0.26			0.10			0.29			1.0			0.19	
Labs Included		17			17			17			17			17	
Labs Reporting		17			17			17			17			17	

Na - sp (107)

in the Salinity Property Groups

Data units: mmolc/L

6276	0.45	0.00	1.58	0.74	0.99	2.94	11.03	1.10	0.13	35.5	1.79	0.36	0.57	0.43	2.18
6283	0.65	0.00	0.13	0.64	0.24	0.35	9.76	1.93	0.11	29.5	8.5	1.1	0.56	0.10	0.26
6306	0.56	0.80	0.45	0.60	0.59	0.10	7.71	0.38	0.26	24.8	0.52	0.52	0.86	0.42	0.34
6327	0.19	0.20	0.04	0.60	0.14	0.01	5.95	0.66	0.22	22.3	2.5	1.6	0.14	0.10	0.04
6330	0.37	0.43	0.39	0.46	0.41	0.26	8.58	-0.79	0.65	28.4	-0.46	0.95	0.50	1.67	0.70
		0.11	0.03		0.10	0.03		-1.39	0.56		-2.2	2.8		0.40	0.09
		-1.03	1.52		-1.35	1.17		-1.79	3.52		-0.99	3.63		-1.38	0.81
		-0.26	0.12		-0.33	0.14		-3.15	3.02		-4.7	10.8		-0.33	0.10
		-0.33	2.71		-0.15	1.51		-0.29	0.67		0.29	0.61		0.17	2.57
		-0.08	0.22		-0.04	0.18		-0.52	0.57		1.4	1.8		0.04	0.31

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6334	0.54	0.38	0.32	0.55	0.22	0.13	9.17	0.04	0.09	24.9	-0.45	0.09	0.37	-0.39	0.16
6335	0.40	0.09	0.03	0.37	0.05	0.02	9.95	0.07	0.08	33.2	-2.2	0.3	0.47	-0.09	0.02
6382	0.30	-0.20	0.25	0.30	-0.52	0.18	9.30	0.48	0.16	27.9	1.30	0.36	0.33	0.01	0.25
6401	0.33	-0.05	0.02	0.37	-0.13	0.02	7.74	0.85	0.13	22.6	6.2	1.1	0.28	0.00	0.03
6407	0.64	-0.60	1.26	0.59	-0.83	0.85	8.55	0.11	0.20	24.1	0.19	0.41	0.59	-0.55	0.47
6408	0.67	-0.15	0.10	0.62	-0.20	0.10	8.28	0.20	0.17	29.3	0.9	1.2	0.46	-0.13	0.06
6409	0.53	-0.48	0.33	0.50	-0.55	1.32	9.70	-0.77	0.77	27.0	-0.93	0.65	0.33	-0.76	0.17
6516	0.74	-0.12	0.03	0.52	-0.13	0.16	8.53	-1.36	0.66	26.4	-4.4	1.9	0.53	-0.18	0.02
6620	0.25	0.76	0.83	0.21	0.39	0.57	9.87	-0.31	0.29	29.1	-0.62	0.22	0.26	0.55	1.35
6626	0.60	0.19	0.07	0.57	0.09	0.07	11.77	-0.55	0.25	32.5	-2.9	0.7	0.53	0.13	0.16
6664	0.01	0.87	0.63	0.01	0.51	0.21	9.10	-0.47	0.58	26.1	0.49	0.26	0.01	0.00	0.20
6714	0.22	0.22	0.05	0.17	0.12	0.02	5.00	-0.82	0.49	19.8	2.3	0.8	0.17	0.00	0.02
		0.34	0.72		0.00	0.85		0.34	1.32		0.00	0.89		-0.55	0.47
		0.08	0.06		0.00	0.10		0.60	1.14		0.0	2.6		-0.13	0.06
		1.16	0.60		0.07	0.78		-0.32	0.22		-0.13	0.06		0.30	0.99
		0.29	0.05		0.02	0.09		-0.57	0.19		-0.6	0.2		0.07	0.12
		-0.79	0.62		-1.22	0.21		0.43	0.79		0.44	0.22		-0.86	0.78
		-0.20	0.05		-0.29	0.03		0.77	0.68		2.1	0.7		-0.20	0.10
		0.60	0.00		0.28	0.49		1.51	0.18		1.16	0.15		0.29	0.47
		0.15	0.00		0.07	0.06		2.67	0.15		5.5	0.5		0.07	0.06
		-1.76	0.00		-2.03	0.00		0.00	0.00		-0.19	0.00		-1.91	0.00
		-0.44	0.00		-0.49	0.00		0.00	0.00		-0.9	0.0		-0.45	0.00
		-0.93	0.55		-1.35	0.37		-2.32	0.33		-1.51	0.67		-1.22	0.36
		-0.23	0.04		-0.33	0.04		-4.10	0.29		-7.2	2.0		-0.29	0.04
Grand Median		0.45			0.50			9.10			27.0			0.46	
Median Abs Dev		0.15			0.13			0.77			2.3			0.13	
Avg Within Lab SD		0.08			0.12			0.86			3.0			0.12	
Labs Included		17			17			17			17			17	
Labs Reporting		17			17			17			17			17	

SAR - sp (108)

in the Salinity Property Groups

Data units: value

6276	0.23	0.00	2.05	0.48	1.01	2.62	3.92	0.46	0.18	8.25	1.04	0.26	0.24	0.37	2.54
6283	0.37	0.00	0.07	0.49	0.18	0.21	3.70	0.24	0.05	7.15	1.10	0.15	0.25	0.04	0.11
6306	0.35	0.92	1.12	0.48	1.07	0.26	3.38	0.03	0.41	7.55	0.00	0.46	0.41	0.51	0.61
6327	0.13	0.14	0.04	0.14	0.19	0.02	2.95	0.02	0.10	6.22	0.00	0.26	0.08	0.05	0.03
6335	0.20	0.79	1.42	0.24	0.99	0.33	3.68	-0.58	0.32	8.41	0.39	1.20	0.20	2.19	1.27
		0.12	0.05		0.18	0.03		-0.31	0.08		0.41	0.68		0.21	0.06
		-0.71	1.89		-0.87	1.05		-1.40	3.31		-0.88	3.11		-1.26	0.93
		-0.10	0.06		-0.16	0.08		-0.74	0.85		-0.92	1.77		-0.12	0.04
		-0.23	0.31		-0.31	0.14		0.00	0.24		1.20	0.65		0.00	0.23
		-0.03	0.01		-0.06	0.01		0.00	0.06		1.27	0.37		0.00	0.01

ALP Program - Participant Web Summary Report - Cycle 07



	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6382	0.14	-0.62	0.36	0.19	-0.61	0.22	3.74	0.10	0.02	6.80	-0.33	0.33	0.12	-0.79	0.27
6401	0.18	-0.09	0.01	0.29	-0.11	0.02	3.29	0.05	0.01	6.16	-0.35	0.19	0.15	-0.08	0.01
6408	0.40	-0.37	0.62	0.47	-0.07	1.50	3.47	-0.75	0.61	7.13	-0.93	0.43	0.20	-0.55	0.13
6409	0.30	-0.05	0.02	0.30	-0.01	0.12	3.70	-0.40	0.16	7.50	-0.98	0.25	0.20	-0.05	0.01
6516	0.42	1.13	0.00	0.40	0.92	0.72	3.54	-0.41	0.45	6.43	-0.01	0.10	0.24	0.00	0.00
6626	0.30	0.17	0.00	0.37	0.17	0.06	4.07	-0.22	0.12	7.97	-0.01	0.06	0.23	0.00	0.00
6664	0.10	0.45		0.10	0.00		4.03	0.03		7.68	0.33		0.10	0.00	
6714	0.10	0.07		0.14	0.00		1.93	0.02		5.36	0.35		0.07	0.00	
		1.26	1.01		0.55	1.17		-0.27	0.17		-0.68	0.09		0.40	1.28
		0.18	0.03		0.10	0.09		-0.14	0.04		-0.72	0.05		0.04	0.06
		0.45	0.00		0.37	0.72		0.73	0.23		0.78	0.27		0.34	1.33
		0.07	0.00		0.07	0.06		0.38	0.06		0.82	0.15		0.03	0.06
		-0.91	0.00		-1.11	0.00		0.66	0.00		0.51	0.00		-1.02	0.00
		-0.13	0.00		-0.20	0.00		0.35	0.00		0.53	0.00		-0.10	0.00
		-0.94	0.57		-0.89	0.38		-3.34	1.02		-1.69	0.90		-1.34	0.39
		-0.14	0.02		-0.16	0.03		-1.76	0.26		-1.78	0.51		-0.13	0.02
Grand Median		0.23			0.30			3.68			7.15			0.20	
Median Abs Dev		0.10			0.16			0.24			0.72			0.05	
Avg Within Lab SD		0.03			0.08			0.26			0.57			0.04	
Labs Included		13			13			13			13			13	
Labs Reporting		13			13			13			13			13	

Cl - sp (109)		in the Salinity Property Groups											Data units: mmol/L		
6276	0.64	1.86	1.43	1.51	2.31	3.14	4.47	1.85	2.10	6.25	1.16	1.35	0.86	3.26	3.25
6283	0.47	0.32	0.16	0.70	0.92	0.73	3.22	1.53	0.74	4.59	1.66	1.14	0.25	0.61	0.59
6306	0.32	0.90	0.51	0.69	0.26	0.35	2.91	0.35	0.67	4.41	0.00	0.21	0.36	-0.01	0.32
6327	0.46	0.15	0.06	0.56	0.10	0.08	2.53	0.29	0.23	6.73	0.00	0.18	0.26	0.00	0.06
6330	0.77	0.03	0.37	1.14	0.25	0.97	4.19	-0.03	0.90	5.36	-0.13	0.20	0.33	0.62	0.29
6334	0.34	0.01	0.04	0.46	0.10	0.23	2.65	-0.03	0.32	3.34	-0.18	0.17	0.25	0.12	0.05
6335	0.27	0.84	2.56	0.24	-0.09	0.32	4.11	-0.49	0.25	5.85	1.49	3.15	0.18	0.04	0.84
6401	0.29	0.14	0.29	0.34	-0.04	0.07	2.34	-0.41	0.09	3.21	2.14	2.67	0.07	0.01	0.15
6407	0.31	2.62	0.58	0.71	1.37	0.64	2.93	1.52	1.02	3.48	0.54	0.52	0.46	0.45	0.07
		0.45	0.07		0.55	0.15		1.26	0.36		0.77	0.44		0.08	0.01
		0.12	0.09		-0.33	0.07		-0.35	0.16		-0.88	0.04		0.01	
		0.02	0.01		-0.13	0.02		-0.29	0.06		-1.25	0.03		0.00	
		-0.27	0.54		-0.89	0.16		1.42	0.08		0.88	0.22		-0.37	0.11
		-0.05	0.06		-0.35	0.04		1.18	0.03		1.26	0.19		-0.07	0.02
		-0.20	0.19		-0.64	0.07		-0.72	0.60		-0.97	0.24		-0.96	0.10
		-0.03	0.02		-0.25	0.02		-0.60	0.21		-1.38	0.20		-0.18	0.02
		-0.05	0.87		0.28	0.53		0.00	1.12		-0.78	0.19		1.14	0.50
		-0.01	0.10		0.11	0.12		0.00	0.39		-1.11	0.16		0.21	0.09

ALP Program - Participant Web Summary Report - Cycle 07



	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	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
6409							2.33	-0.72	1.64	3.33	-0.88	0.68			
6516	0.27	-0.30	1.08	0.38	-0.53	0.27	2.58	-0.60	0.58	3.79	-1.26	0.58	0.12	-0.72	0.03
6620	0.31	-0.05	0.12	0.63	-0.21	0.06	3.45	-0.43	0.17	4.76	-0.56	0.24	0.21	-0.13	0.01
6626	0.17	-0.03	0.14	0.17	0.09	0.35	3.17	0.62	1.09	5.17	0.12	0.38	0.19	-0.21	0.11
		-0.01	0.02		0.04	0.08		0.51	0.38		0.17	0.33		-0.04	0.02
		-0.87	0.62		-1.06	0.30		0.28	0.82		0.40	0.34		-0.31	0.47
		-0.15	0.07		-0.42	0.07		0.23	0.29		0.58	0.29		-0.06	0.08
Grand Median		0.32			0.59			2.93			4.59			0.25	
Median Abs Dev		0.05			0.17			0.41			1.11			0.08	
Avg Within Lab SD		0.11			0.23			0.35			0.85			0.18	
Labs Included		12			12			13			13			12	
Labs Reporting		12			12			13			13			12	

SO4 - sp (110)			in the Salinity Property Groups												Data units: mmole/L		
6276	0.81	1.62	0.86	1.12	0.87	0.63	5.23	0.88	0.69	62.6	2.30	0.32	1.65	0.59	0.40		
6283	0.63	0.21	0.06	1.03	0.17	0.06	4.55	0.68	0.17	49.5	12.9	0.8	1.45	0.24	0.06		
6327	0.57	0.32	0.21	0.83	0.41	0.26	3.97	0.00	0.54	54.3	-0.05	0.09	1.15	0.10	0.20		
6330	0.90	0.04	0.02	1.11	0.08	0.03	5.23	0.00	0.13	53.9	0.81	0.80	1.84	0.04	0.03		
6334	0.56	-0.14	0.43	0.93	-0.59	1.67	5.12	-0.74	0.80	50.3	0.81	0.80	1.48	-0.65	0.88		
6335	0.58	-0.02	0.03	0.96	-0.12	0.16	4.84	-0.57	0.19	46.3	4.5	2.0	1.41	-0.26	0.14		
6401	0.60	2.31	0.08	0.81	0.83	0.76	3.78	0.88	1.58	48.9	0.73	1.93	0.84	1.07	2.51		
6407	0.51	0.31	0.01	0.62	0.17	0.07	4.03	0.68	0.38	43.0	4.1	4.9	1.07	0.43	0.40		
6409		-0.24	0.13		-0.08	0.18	4.00	0.74	0.44	46.0	0.09	0.11	1.00	0.16	0.20		
6516	0.43	-0.03	0.01	0.66	-0.02	0.02	3.83	0.57	0.11	54.2	0.5	0.3	0.91	0.06	0.03		
6620	0.62	-0.06	0.16	0.97	0.08	0.28	4.91	0.38	0.60	49.8	-0.62	0.27	1.54	0.00	0.10		
		-0.01	0.01		0.02	0.03		0.29	0.14		-3.4	0.7		0.00	0.02		
		0.06	2.27		-0.66	2.16		-1.00	1.81		-0.15	1.52		-1.43	0.10		
		0.01	0.17		-0.13	0.21		-0.77	0.44		-0.8	3.8		-0.58	0.02		
		-0.59	1.33		-1.65	0.46		-0.68	0.50		-1.21	0.48		-0.85	1.56		
		-0.08	0.10		-0.33	0.04		-0.52	0.12		-6.7	1.2		-0.34	0.25		
								-0.71			-0.67	1.73		-1.02			
								-0.55			-3.8	4.4		-0.41			
		-1.19	0.23		-1.46	0.44		-0.93	0.35		0.79	0.81		-1.24	0.11		
		-0.16	0.02		-0.29	0.04		-0.72	0.08		4.4	2.0		-0.50	0.02		
		0.21	1.43		0.13	1.00		0.47	1.71		0.00	0.49		0.31	1.11		
		0.03	0.11		0.03	0.10		0.36	0.41		0.0	1.2		0.12	0.18		

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	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	0.59			0.95			4.55			49.8			1.41		
Median Abs Dev	0.04			0.13			0.57			3.8			0.26		
Avg Within Lab SD	0.07			0.09			0.24			2.5			0.16		
Labs Included	10			10			11			11			11		
Labs Reporting	10			10			11			11			11		

NO3 - sp (111)			in the Salinity Property Groups										Data units: mmol/L		
6276	5.40	-0.20	0.40	0.71	-0.97	1.89	16.5	0.32	1.15	3.05	-0.26	0.29	5.12	-0.22	0.86
		-0.52	0.15		-1.33	0.49		1.9	0.6		-0.48	0.22		-0.66	0.46
6327	5.57	-0.14	0.82	2.04	0.00	0.20	11.9	-0.47	1.07	4.85	0.72	2.43	5.66	-0.04	0.88
		-0.35	0.31		0.00	0.05		-2.7	0.6		1.32	1.81		-0.12	0.47
6330	7.31	0.54	2.40	3.42	1.00	1.51	17.8	0.53	1.51	5.74	1.21	0.78	8.63	0.95	2.24
		1.39	0.90		1.38	0.40		3.1	0.8		2.21	0.59		2.85	1.20
6334	10.70	1.88	0.12	0.77	-0.93	0.61	20.7	1.02	1.05	4.99	0.80	0.13	10.83	1.69	0.26
		4.78	0.05		-1.27	0.16		6.0	0.6		1.46	0.10		5.05	0.14
6407	1.18	-1.86	0.11	0.26	-1.30	0.07	2.1	-2.15	0.14	0.73	-1.53	0.05	1.07	-1.58	0.35
		-4.74	0.04		-1.78	0.02		-12.6	0.1		-2.80	0.04		-4.71	0.19
6409	6.16	0.09	0.23	2.49	0.33	0.27	14.7	0.00	0.75	3.53	0.00	0.54	5.78	0.00	0.47
		0.24	0.09		0.45	0.07		0.0	0.4		0.00	0.40		0.00	0.25
6516	5.92	0.00	0.58	2.32	0.20	0.82	13.3	-0.23	0.76	3.16	-0.20	0.30	6.47	0.23	0.20
		0.00	0.22		0.28	0.22		-1.4	0.4		-0.37	0.23		0.69	0.11
Grand Median	5.92			2.04			14.7			3.53			5.78		
Median Abs Dev	0.52			1.27			2.7			1.32			0.69		
Avg Within Lab SD	0.38			0.26			0.5			0.75			0.54		
Labs Included	7			7			7			7			7		
Labs Reporting	7			7			7			7			7		

B - sp (112)			in the Salinity Property Groups										Data units: mg/L		
6276	0.057	-0.83	1.74				0.25	-0.11	0.72	0.66	0.71	0.70	0.087	1.23	1.35
		-0.013	0.031					-0.01	0.02		0.06	0.02		0.027	0.021
6283	0.070	0.00	0.57	0.087	0.82	1.11	0.30	1.18	1.36	0.60	-0.06	1.15	0.060	0.00	0.65
		0.000	0.010		0.030	0.021		0.05	0.03		-0.01	0.04		0.000	0.010
6327	0.046	-1.49	1.43	0.026	-0.87	0.26	0.20	-1.10	1.35	0.52	-1.11	1.53	0.039	-0.97	0.72
		-0.024	0.025		-0.031	0.005		-0.05	0.03		-0.09	0.05		-0.021	0.011
6330	0.070	0.00	0.99	0.090	0.91	2.13	0.25	-0.11	0.98	0.55	-0.67	0.61	0.067	0.31	2.09
		0.000	0.017		0.033	0.040		-0.01	0.02		-0.05	0.02		0.007	0.032
6334	0.077	0.42	0.33	0.020	-1.02	0.00	0.25	-0.11	0.27	0.61	0.06	1.53	0.023	-1.69	0.38
		0.007	0.006		-0.037	0.000		-0.01	0.01		0.01	0.05		-0.037	0.006

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	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	0.060	-0.62	0.57	0.033	-0.65	0.31	0.26	0.11	1.18	0.57	-0.45	0.47	0.050	-0.46	0.00
6620	0.086	-0.010	0.010	0.057	-0.024	0.006	0.28	0.01	0.03	0.61	-0.04	0.02	0.076	-0.010	0.000
6626	0.087	1.00	1.04	0.073	0.00	0.99	0.34	0.57	1.04	0.77	0.12	0.11	0.060	0.74	0.85
		0.016	0.018		0.000	0.019		0.03	0.02		0.01	0.00		0.016	0.013
		1.04	0.33		0.45	0.31		2.09	0.54		2.22	0.93		0.00	0.00
		0.017	0.006		0.016	0.006		0.09	0.01		0.17	0.03		0.000	0.000
Grand Median		0.070			0.057			0.25			0.60			0.060	
Median Abs Dev		0.012			0.030			0.02			0.04			0.013	
Avg Within Lab SD		0.018			0.019			0.02			0.03			0.015	
Labs Included		8			7			8			8			8	
Labs Reporting		8			7			8			8			8	

Soil EC (1:1) (113) in the Soil pH & EC Property Groups															
														Data units: dS/m	
6278	0.39	-0.05	0.24	0.15	0.53	0.00	0.82	0.77	1.10	2.77	1.79	0.74	0.46	0.12	0.15
6283	0.43	0.00	0.01	0.12	0.02	0.00	0.73	0.15	0.03	2.08	0.70	0.03	0.37	0.07	0.01
6306	0.41	0.38	2.09	0.14	-0.24	0.57	0.79	0.30	0.41	2.06	0.03	1.43	0.42	-0.04	0.77
6327	0.26	0.04	0.05	0.11	-0.01	0.01	0.56	0.06	0.01	2.43	0.01	0.06	0.51	-0.02	0.03
6330	0.45	0.23	0.24	0.14	0.24	0.00	0.86	0.63	0.36	2.20	-0.03	0.93	0.39	0.04	0.39
6336	0.25	-1.37	0.24	0.11	-0.53	0.57	0.37	-0.56	0.21	1.11	-0.01	0.04	0.29	0.02	0.02
6343	0.23	-0.13	0.01	0.10	-0.02	0.01	0.51	-0.11	0.01	1.83	0.92	0.15	0.17	0.20	0.00
6353	0.37	0.66	1.27	0.18	0.34	1.14	0.65	1.01	0.90	1.69	0.33	0.00	0.52	0.12	0.00
6361	0.38	0.06	0.03	0.11	0.01	0.01	0.69	0.19	0.03	2.04	0.13	0.00	0.34	-0.01	0.77
6396	0.49	-1.48	0.64	0.07	-0.63	1.97	0.48	-1.57	0.62	2.18	-2.47	1.03	0.31	-0.18	0.91
6516	0.40	-0.14	0.02	0.15	-0.02	0.02	0.64	-0.30	0.02	1.94	-0.96	0.04	4.37	-0.11	0.04
6664	0.46	-1.73	0.00	0.15	-0.83	0.57	0.87	-0.85	0.41	2.18	-0.61	0.39	0.40	-0.37	0.15
		-0.16	0.00	0.18	-0.03	0.01		-0.16	0.01		-0.24	0.02		-0.22	0.01
		-0.23	1.10	0.11	1.31	2.05		-0.12	1.04		-0.98	0.51		0.21	1.03
		-0.02	0.03	0.11	0.05	0.02		-0.02	0.03		-0.38	0.02		0.13	0.04
		-0.09	0.24	0.11	-0.73	1.14		0.12	1.49		-0.07	2.16		-0.09	1.95
		-0.01	0.01	0.11	-0.03	0.01		0.02	0.04		-0.03	0.08		-0.05	0.08
		1.10	0.43	0.07	-1.67	0.22		-0.97	1.26		0.27	0.54		-0.14	1.08
		0.10	0.01	0.07	-0.06	0.00		-0.19	0.04		0.11	0.02		-0.08	0.04
		0.05	0.57	0.15	0.59	0.10		-0.16	0.99		-0.33	0.54		6.70	1.90
		0.00	0.01	0.15	0.02	0.00		-0.03	0.03		-0.13	0.02		3.98	0.07
		0.73	1.91	0.15	0.44	0.57		1.05	1.79		0.28	1.34		0.01	0.39
		0.07	0.05	0.15	0.02	0.01		0.20	0.05		0.11	0.05		0.00	0.02

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	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	0.39			0.13			0.67			2.07			0.39		
Median Abs Dev	0.05			0.02			0.13			0.13			0.08		
Avg Within Lab SD	0.02			0.01			0.03			0.04			0.04		
Labs Included	12			12			12			12			12		
Labs Reporting	12			12			12			12			12		

Soil EC (1:2) (114)			in the Soil pH & EC Property Groups										Data units: dS/m		
6284	0.27	0.55	0.61	0.16	1.66	1.74	0.68	1.52	1.67	1.84	0.69	1.01	0.39	1.58	0.16
		0.03	0.01		0.06	0.02		0.16	0.04		0.22	0.20		0.11	0.01
6289	0.25	0.13	0.22	0.11	0.28	0.24	0.60	0.74	1.75	1.73	0.33	0.34	0.23	-0.68	0.36
		0.01	0.00		0.01	0.00		0.08	0.04		0.10	0.07		-0.05	0.01
6306	0.26	0.36	0.81	0.10	0.07	0.66	0.56	0.33	0.63	1.55	-0.23	0.49	0.30	0.31	0.48
		0.02	0.02		0.00	0.01		0.04	0.02		-0.07	0.10		0.02	0.02
6327	0.27	0.42	0.61	0.19	2.56	0.66	0.57	0.43	0.48	1.89	0.84	0.00	0.31	0.45	0.96
		0.02	0.01		0.09	0.01		0.05	0.01		0.27	0.00		0.03	0.03
6334	0.21	-0.67	1.40	0.13	0.77	1.74	0.46	-0.60	1.57	1.70	0.24	0.05	0.34	0.90	2.50
		-0.03	0.03		0.03	0.02		-0.06	0.04		0.08	0.01		0.06	0.09
6357	0.18	-1.19	2.01	0.09	-0.47	0.71	0.39	-1.25	0.58	0.78	-2.66	2.92	0.22	-0.89	0.43
		-0.06	0.04		-0.02	0.01		-0.13	0.01		-0.84	0.58		-0.06	0.02
6388	0.21	-0.66	0.16	0.09	-0.24	0.63	0.48	-0.35	0.28	1.55	-0.24	0.04	0.25	-0.42	0.51
		-0.03	0.00		-0.01	0.01		-0.04	0.01		-0.08	0.01		-0.03	0.02
6407	0.21	-0.60	0.31	0.09	-0.22	0.66	0.49	-0.32	0.63	1.40	-0.71	0.25	0.24	-0.58	0.96
		-0.03	0.01		-0.01	0.01		-0.03	0.02		-0.22	0.05		-0.04	0.03
6516	0.24	-0.13	1.34	0.09	-0.39	0.83	0.43	-0.89	0.48	1.45	-0.56	0.08	0.26	-0.31	1.00
		-0.01	0.03		-0.01	0.01		-0.10	0.01		-0.18	0.02		-0.02	0.04
6649	0.35	2.04	0.80	0.10	-0.07	1.02	0.56	0.32	0.04	1.70	0.23	0.19	0.32	0.62	0.24
		0.11	0.02		0.00	0.01		0.03	0.00		0.07	0.04		0.04	0.01
Grand Median	0.24			0.10			0.52			1.62			0.28		
Median Abs Dev	0.03			0.01			0.06			0.14			0.04		
Avg Within Lab SD	0.02			0.01			0.02			0.20			0.04		
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 Groups										Data units: Unit		
6276	6.30	1.05	0.00	7.00	0.51		7.90	0.42	0.00	8.03	0.37	1.06	7.33	0.55	0.81
		0.20	0.00		0.10			0.10	0.00		0.07	0.06		0.11	0.06
6278	6.18	0.40	0.12	6.81	-0.48	0.29	7.87	0.30	0.00	7.90	-0.31	0.28	7.28	0.29	0.00
		0.08	0.01		-0.09	0.02		0.07	0.00		-0.06	0.02		0.06	0.00

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6283	6.20	0.52	1.11	6.91	0.02	0.76	7.79	-0.06	0.41	7.87	-0.49	0.37	7.42	0.95	0.58
		0.10	0.06		0.00	0.04		-0.02	0.02		-0.09	0.02		0.20	0.04
6284	6.10	-0.01	2.00	6.80	-0.55	1.87	7.97	0.71	1.14	8.03	0.37	2.81	7.40	0.87	2.42
		0.00	0.10		-0.10	0.10		0.17	0.06		0.07	0.15		0.18	0.17
6288	6.10	-0.01	0.00	6.81	-0.51	0.22	7.80	0.01	0.11	7.95	-0.07	0.92	7.21	-0.06	0.16
		0.00	0.00		-0.10	0.01		0.00	0.01		-0.01	0.05		-0.01	0.01
6289	6.10	0.01	0.42	7.08	0.93	0.49	7.80	-0.01	0.99	7.93	-0.16	0.28	7.39	0.84	0.40
		0.00	0.02		0.18	0.03		0.00	0.05		-0.03	0.02		0.17	0.03
6304	5.80	-1.59	2.00	6.67	-1.25	1.08	7.63	-0.73	1.14	7.93	-0.16	1.06	7.10	-0.58	1.40
		-0.30	0.10		-0.24	0.06		-0.17	0.06		-0.03	0.06		-0.12	0.10
6306	6.21	0.59	0.12	7.15	1.28	2.21	8.12	1.39	0.50	8.22	1.36	0.28	7.57	1.68	1.13
		0.11	0.01		0.24	0.12		0.32	0.03		0.26	0.02		0.35	0.08
6322	5.94	-0.84	0.12	6.53	-1.99	0.60	7.35	-1.97	0.30	7.74	-1.19	0.56	6.91	-1.52	0.29
		-0.16	0.01		-0.38	0.03		-0.46	0.02		-0.23	0.03		-0.31	0.02
6327	6.90	4.21	2.00	7.07	0.86	1.08	7.20	-2.60	0.00	7.00	-5.06		7.23	0.06	2.13
		0.80	0.10		0.16	0.06		-0.60	0.00		-0.96			0.01	0.15
6330	6.07	-0.18	1.15	6.93	0.16	1.08	7.93	0.57	1.14	8.00	0.19		7.17	-0.26	0.81
		-0.04	0.06		0.03	0.06		0.13	0.06		0.04			-0.05	0.06
6333	6.17	0.34	1.15	6.87	-0.19	1.08	7.63	-0.73	1.14	7.93	-0.16	1.06	7.10	-0.58	0.00
		0.07	0.06		-0.04	0.06		-0.17	0.06		-0.03	0.06		-0.12	0.00
6336	6.12	0.11	0.50	6.87	-0.18	0.56	7.45	-1.51	0.94	7.96	-0.02	0.74	7.07	-0.73	2.06
		0.02	0.03		-0.03	0.03		-0.35	0.05		0.00	0.04		-0.15	0.15
6338	6.12	0.08	0.64	6.91	0.04	0.65	7.85	0.19	0.50	8.03	0.35	0.55	7.43	1.03	0.29
		0.02	0.03		0.01	0.03		0.05	0.03		0.07	0.03		0.21	0.02
6353	6.00	-0.54		6.83	-0.40	1.08	7.75	-0.22	1.03	8.19	1.21	1.75	7.11	-0.53	0.73
		-0.10			-0.08	0.06		-0.05	0.05		0.23	0.10		-0.11	0.05
6361	6.03	-0.36	1.15	6.90	-0.02	0.00	7.80	-0.01	1.98	8.03	0.37	1.06	7.17	-0.26	0.81
		-0.07	0.06		0.00	0.00		0.00	0.10		0.07	0.06		-0.05	0.06
6388	6.15	0.24	0.12	6.91	0.02	0.22	7.95	0.63	0.23	8.02	0.30	0.00	7.38	0.78	0.00
		0.05	0.01		0.00	0.01		0.15	0.01		0.06	0.00		0.16	0.00
6396	6.06	-0.23	1.09	6.99	0.46	1.53	7.83	0.11	1.02	7.93	-0.18	0.24	7.18	-0.18	0.21
		-0.04	0.05		0.09	0.08		0.03	0.05		-0.03	0.01		-0.04	0.02
6409	6.10	-0.01	0.00	7.00	0.51		7.90	0.42	0.00	7.97	0.02	1.06	7.50	1.36	
		0.00	0.00		0.10			0.10	0.00		0.00	0.06		0.28	
6516	5.82	-1.50	1.10	6.40	-2.68	0.57	7.32	-2.10	2.55	7.58	-2.01	1.03	7.04	-0.89	0.45
		-0.29	0.06		-0.51	0.03		-0.49	0.13		-0.38	0.06		-0.18	0.03
6664	5.87	-1.24	1.15	6.73	-0.90	1.08	7.77	-0.15	1.14	7.97	0.02	1.06	7.13	-0.42	0.81
		-0.24	0.06		-0.17	0.06		-0.04	0.06		0.00	0.06		-0.09	0.06
6718	6.25	0.78	0.40	7.08	0.92	0.92	7.80	0.01	0.50	8.06	0.49	0.87	7.30	0.40	0.21
		0.15	0.02		0.17	0.05		0.00	0.03		0.09	0.05		0.08	0.02

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
Grand Median	6.10			6.90			7.80			7.96			7.22		
Median Abs Dev	0.07			0.10			0.10			0.06			0.12		
Avg Within Lab SD	0.05			0.05			0.05			0.05			0.07		
Labs Included	22			22			22			22			22		
Labs Reporting	22			22			22			22			22		

pH (1:2) Water (116)			in the Soil pH & EC Property Groups									Data units: Unit			
6306	6.37	0.21	0.39	7.18	0.36	0.66	8.12	0.92	0.36	8.22	1.45	0.24	7.57	1.34	1.01
		0.10	0.04		0.18	0.06		0.30	0.03		0.27	0.02		0.37	0.08
6327	6.93	1.37	1.69	7.03	0.06	1.82	7.20	-1.90	1.43	7.80	-0.80	1.56	7.10	-0.37	2.17
		0.66	0.15		0.03	0.15		-0.62	0.10		-0.15	0.10		-0.10	0.17
6334	6.27	0.00	0.23	7.01	0.00	0.07	7.99	0.51	0.14	8.01	0.32	0.00	7.38	0.64	0.19
		0.00	0.02		0.00	0.01		0.17	0.01		0.06	0.00		0.18	0.02
6343	5.40	-1.81	0.00	6.00	-2.08		7.73	-0.27	0.82	8.00	0.27		6.87	-1.22	0.72
		-0.87	0.00		-1.01			-0.09	0.06		0.05			-0.33	0.06
6357	6.43	0.33	0.70	7.23	0.46	1.31	8.23	1.24	1.43	8.20	1.35	1.08	7.66	1.69	1.41
		0.16	0.06		0.22	0.11		0.41	0.10		0.25	0.07		0.46	0.11
6388	5.81	-0.96	0.00	6.40	-1.24	0.07	7.69	-0.41	0.00	7.95	0.00	0.00	7.16	-0.15	0.00
		-0.46	0.00		-0.60	0.01		-0.13	0.00		0.00	0.00		-0.04	0.00
6407	6.07	-0.43	2.31	6.63	-0.77	0.69	7.77	-0.17	0.82	7.90	-0.27	0.00	7.20	0.00	1.25
		-0.21	0.21		-0.37	0.06		-0.06	0.06		-0.05	0.00		0.00	0.10
6408	6.75	0.99	1.28	7.09	0.17	0.93	7.82	0.00	0.36	7.78	-0.88	2.55	7.34	0.51	0.65
		0.48	0.12		0.08	0.08		0.00	0.03		-0.17	0.16		0.14	0.05
6409	6.32	0.10	0.06	7.23	0.46	0.12	7.97	0.45	0.14	7.96	0.07	0.33	7.44	0.89	0.14
		0.05	0.01		0.22	0.01		0.15	0.01		0.01	0.02		0.24	0.01
6516	5.98	-0.62	0.67	6.36	-1.34	2.04	7.33	-1.51	2.30	7.58	-1.94	0.77	7.13	-0.26	0.78
		-0.30	0.06		-0.65	0.17		-0.49	0.16		-0.37	0.05		-0.07	0.06
6649	5.99	-0.60	0.17	6.78	-0.48	0.06	7.84	0.05	0.00	7.94	-0.08	0.39	7.10	-0.37	0.25
		-0.29	0.02		-0.23	0.01		0.02	0.00		-0.02	0.03		-0.10	0.02
Grand Median	6.27			7.01			7.82			7.95			7.20		
Median Abs Dev	0.29			0.22			0.15			0.06			0.14		
Avg Within Lab SD	0.09			0.08			0.07			0.06			0.08		
Labs Included	11			11			11			11			11		
Labs Reporting	11			11			11			11			11		

pH (1:1) 0.01M CaCl2 (117)			in the Soil pH & EC Property Groups									Data units: Unit			
6289	5.73	-0.67	1.27	6.47	1.39	0.46	7.47	-0.58	1.09	7.75	-0.70	0.57	6.99	0.00	0.62
		-0.06	0.06		0.07	0.03		-0.06	0.04		-0.18	0.02		0.00	0.03

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6306	5.79	0.00	0.59	6.36	-0.86	0.63	7.56	0.21	0.14	7.93	0.00	0.98	6.99	-0.07	0.75
6327	5.97	0.00	0.03	6.40	-0.04	0.03	7.53	0.02	0.01	7.30	0.00	0.03	7.03	-0.01	0.03
6353	5.76	2.10	1.29	6.46	-0.07	1.81	7.41	0.00	1.45	7.95	-2.51	0.00	6.90	0.44	1.42
6388	5.81	0.18	0.06	6.40	0.00	0.10	7.69	0.00	0.06	7.95	-0.63	0.00	7.16	0.04	0.06
		-0.36	1.16		1.06	1.05		-1.13	1.30		0.08	1.93		-1.00	1.42
		-0.03	0.05		0.05	0.06		-0.12	0.05		0.02	0.05		-0.09	0.06
		0.24	0.00		0.00	0.10		1.44	0.00		0.08	0.00		1.85	0.00
		0.02	0.00		0.00	0.01		0.16	0.00		0.02	0.00		0.17	0.00
Grand Median		5.79			6.40			7.53			7.93			6.99	
Median Abs Dev		0.03			0.04			0.06			0.02			0.04	
Avg Within Lab SD		0.04			0.06			0.04			0.03			0.04	
Labs Included		5			5			5			5			5	
Labs Reporting		5			5			5			5			5	

pH (1:2) 0.01M CaCl2 (118)			in the Soil pH & EC Property Groups												Data units: Unit		
6327	5.87	1.50	1.33	6.20	-0.18	1.28	7.57	0.62	0.49	7.27	-0.70	0.50	7.03	0.25	1.09		
6407	5.63	0.20	0.06	6.27	-0.03	0.10	7.37	0.20	0.06	7.70	-0.18	0.06	6.90	0.07	0.06		
6409	5.70	-0.25	1.33	6.30	0.18	0.74	7.37	0.00	0.49	7.57	1.02	0.00	6.90	-0.25	0.00		
6516	5.57	-0.03	0.06	6.30	0.03	0.06	7.37	0.00	0.06	7.57	0.26	0.00	7.23	-0.07	0.00		
		0.25	0.00		0.37	0.00		0.00	0.49		0.49	0.50		0.98	1.09		
		0.03	0.00		0.07	0.00		0.00	0.06		0.12	0.06		0.27	0.06		
		-0.70	0.67		-1.96	1.35		-2.08	1.81		-0.49	1.87		-1.23	1.28		
		-0.09	0.03		-0.35	0.11		-0.67	0.21		-0.12	0.22		-0.33	0.07		
Grand Median		5.67			6.23			7.37			7.44			6.97			
Median Abs Dev		0.06			0.05			0.10			0.15			0.17			
Avg Within Lab SD		0.04			0.08			0.12			0.12			0.05			
Labs Included		4			4			4			4			4			
Labs Reporting		4			4			4			4			4			

SMP Buffer pH (121)			in the Buffer pH, Lime Requirement Property Groups												Data units: Unit		
6283	7.04	0.23	0.51	7.28	0.00	0.60	7.48	-0.32	0.48	7.53	-0.07	0.82	7.27	0.04	0.42		
6284	6.63	0.04	0.03	6.90	0.00	0.02	7.51	-0.03	0.02	7.60	-0.01	0.03	7.27	0.00	0.03		
6288	7.00	-2.09	1.11	7.28	-3.42	0.00	7.51	0.04	0.18	7.60	0.64	0.00	7.21	-0.65	0.18		
6289	6.88	-0.37	0.06	7.28	-0.03	0.39	7.41	0.00	0.01	7.51	0.06	0.00	7.20	-0.06	0.01		
		0.00			0.00	0.01		0.00	0.01		0.06	0.00		-0.06	0.01		
		-0.68	0.19		-0.03	0.39		-1.11	0.54		-0.27	0.54		-0.72	0.16		
		-0.12	0.01		0.00	0.01		-0.09	0.02		-0.03	0.02		-0.07	0.01		

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6327	6.91	-0.49	0.80	7.29	0.06	0.39	7.51	0.04	1.26	7.58	0.44	1.65	7.27	0.00	0.46
6330	7.23	-0.09	0.04	7.40	0.01	0.01	7.37	0.00	0.04	7.30	0.04	0.05	7.20	0.00	0.03
6334	6.81	1.33	2.93	7.40	1.04	0.00	7.37	-1.62	1.80	7.30	-2.39	0.00	7.20	-0.72	1.59
6336	7.06	0.23	0.15	7.18	0.12	0.00	7.47	-0.14	0.06	7.51	-0.24	0.00	7.33	-0.07	0.10
6338	6.96	-1.06	0.29	7.18	-0.95	0.60	7.47	-0.36	1.00	7.51	-0.24	0.18	7.33	0.65	2.66
6343	7.00	-0.19	0.02	7.26	-0.11	0.02	7.57	-0.03	0.03	7.67	-0.02	0.01	7.27	0.06	0.17
6357	7.05	0.32	0.98	7.26	-0.21	1.57	7.57	0.83	0.78	7.67	1.31	0.65	7.27	0.00	0.24
6388	7.11	0.06	0.05	7.30	-0.02	0.04	7.52	0.07	0.03	7.54	0.13	0.02	7.30	0.00	0.02
6718	6.75	-0.25	0.44	7.30	0.18	0.99	7.52	0.16	1.00	7.54	0.07	0.90	7.30	0.36	0.69
		-0.04	0.02	7.30	0.02	0.03	7.50	0.01	0.03	7.50	0.01	0.03	7.20	0.03	0.04
		0.00		7.30	0.15	0.00	7.50	-0.04		7.50	-0.37		7.20	-0.72	0.00
		0.27	0.66	7.36	0.69	2.54	7.55	0.57	1.84	7.62	0.88	2.41	7.28	-0.07	0.00
		0.05	0.03	7.36	0.08	0.06	7.55	0.05	0.06	7.62	0.09	0.08	7.28	0.17	1.09
		0.63	0.00	7.34	0.51	0.00	7.63	1.51	0.00	7.67	1.35	0.00	7.36	0.02	0.07
		0.11	0.00	7.34	0.06	0.00	7.63	0.13	0.00	7.67	0.13	0.00	7.36	1.04	0.09
		-1.42	0.77	7.11	-1.52	1.38	7.38	-1.51	0.78	7.53	-0.07	1.12	6.98	-3.05	0.48
		-0.25	0.04	7.11	-0.17	0.04	7.38	-0.13	0.03	7.53	-0.01	0.04	6.98	-0.28	0.03
Grand Median		7.00			7.28			7.50			7.54			7.27	
Median Abs Dev		0.09			0.02			0.04			0.04			0.06	
Avg Within Lab SD		0.05			0.03			0.03			0.03			0.06	
Labs Included		13			13			12			12			12	
Labs Reporting		13			13			12			12			12	

Sikora Buffer pH (122)		in the Buffer pH, Lime Requirement Property Groups				Data units: Unit
6276	7.17	7.40	7.60	7.60	7.33	
6304	6.67	7.17	7.60	7.70	7.27	
Grand Median	6.92	7.28	7.60	7.65	7.30	
Median Abs Dev	0.25	0.12	0.00	0.05	0.03	
Avg Within Lab SD				0.00	0.06	
Labs Included	2	2	2	2	2	
Labs Reporting	2	2	2	2	2	

Adams-Evans Buffer pH (123)		in the Buffer pH, Lime Requirement Property Groups		Data units: Unit
6278	7.58	7.80		

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	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6289	7.65			7.83			7.77			7.75			7.80		
6388	7.65			7.80			7.81			7.77			7.77		
Grand Median	7.65			7.80			7.79			7.76			7.79		
Median Abs Dev	0.01			0.00			0.02			0.01			0.02		
Avg Within Lab SD										0.00			0.00		
Labs Included	3			3			2			2			2		
Labs Reporting	3			3			2			2			2		

Woodruff Buffer pH (124)			in the Buffer pH, Lime Requirement Property Groups									Data units: Unit			
			Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score				Sample Mean
6289	6.75	-0.25	0.49	6.97	0.12	0.22	7.08	-1.99	2.00	7.15	-1.02	0.22	6.97	-1.21	0.21
		-0.04	0.01		0.01	0.01		-0.10	0.01		-0.16	0.01		-0.10	0.01
6306	6.80	0.07	0.00	6.90	-0.47	0.00	7.20	0.51	0.00	7.40	0.56	0.00	7.10	0.32	0.00
		0.01	0.00		-0.05	0.00		0.03	0.00		0.09	0.00		0.03	0.00
6353	6.95	1.09	2.18	7.11	1.42	2.21	7.18	0.10	0.00	7.40	0.56	1.99	7.14	0.85	1.98
		0.16	0.05		0.16	0.06		0.01	0.00		0.09	0.05		0.07	0.06
6388	6.79	0.00	0.00	6.95	0.00	0.22	7.17	-0.10	0.00	7.22	-0.56	0.00	7.05	-0.32	0.21
		0.00	0.00		0.00	0.01		-0.01	0.00		-0.09	0.00		-0.03	0.01
6664	6.50	-1.97		6.80	-1.36	0.00									
		-0.29			-0.15	0.00									
Grand Median	6.79			6.95			7.18			7.31			7.07		
Median Abs Dev	0.04			0.05			0.02			0.09			0.05		
Avg Within Lab SD	0.02			0.03			0.00			0.03			0.03		
Labs Included	5			5			4			4			4		
Labs Reporting	5			5			4			4			4		

NO3-N Cd. Rd. (126)			in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups									Data units: mg/kg			
			Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score				Sample Mean
6276	42.9	0.86	0.52	11.8	0.29	0.60	73.3	0.70	0.54	29.8	0.70	1.63	38.0	0.90	1.48
		4.2	0.9		0.8	0.4		8.1	1.3		2.4	2.3		3.8	3.1
6283	35.0	-0.77	0.62	9.0	-0.76	0.29	57.3	-0.69	0.56	25.6	-0.54	0.37	30.8	-0.79	0.34
		-3.7	1.1		-2.0	0.2		-8.0	1.3		-1.8	0.5		-3.4	0.7
6284	46.3	1.57	0.32	14.0	1.15		85.7	1.77	0.25	32.7	1.54	0.41	41.7	1.76	0.28
		7.6	0.6		3.0			20.4	0.6		5.2	0.6		7.5	0.6
6289	42.7	0.81	0.32	7.0	-1.53		56.7	-0.75	0.25	27.3	-0.03	0.81	32.7	-0.36	0.28
		3.9	0.6		-4.0			-8.6	0.6		-0.1	1.2		-1.5	0.6
6291	39.4	0.12	1.89	13.8	1.07	3.17	74.6	0.81	2.06	27.8	0.11	2.10	33.4	-0.20	1.95
		0.6	3.5		2.8	1.9		9.3	4.8		0.4	3.0		-0.8	4.1

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6304	38.0	-0.15	2.54	9.3	-0.64	0.24	59.3	-0.52	0.24	26.1	-0.40	0.27	32.5	-0.39	0.80
		-0.7	4.6		-1.7	0.1		-6.0	0.6		-1.4	0.4		-1.6	1.7
6306	46.2	1.54	0.32	12.0	0.37	1.42	83.9	1.61	3.09	27.1	-0.11	1.84	37.8	0.85	1.83
		7.4	0.6		1.0	0.9		18.6	7.2		-0.4	2.6		3.6	3.8
6330	41.0	0.46	0.55	11.0	0.00		76.7	0.99	0.50	26.7	-0.22	0.41	39.0	1.13	
		2.2	1.0		0.0			11.4	1.2		-0.8	0.6		4.8	
6334	43.3	0.95	1.14	16.7	2.17	0.96	68.7	0.29	0.66	42.7	4.47	1.07	40.0	1.37	
		4.6	2.1		5.7	0.6		3.4	1.5		15.2	1.5		5.8	
6335	36.2	-0.54	0.77	8.8	-0.85	0.35	65.1	-0.01	0.66	29.3	0.56	0.40	35.3	0.27	1.21
		-2.6	1.4		-2.2	0.2		-0.2	1.5		1.9	0.6		1.1	2.5
6338	37.8	-0.20	2.18	11.4	0.14	1.19	63.3	-0.17	0.16	28.4	0.29	1.96	34.4	0.04	1.74
		-0.9	4.0		0.4	0.7		-2.0	0.4		1.0	2.8		0.2	3.6
6343	34.9	-0.80	0.33	9.7	-0.50	0.17	64.5	-0.07	0.30	25.4	-0.60	0.46	30.2	-0.94	0.05
		-3.9	0.6		-1.3	0.1		-0.8	0.7		-2.0	0.7		-4.0	0.1
6361	38.2	-0.12	1.11	11.5	0.19	0.83	72.0	0.58	1.14	25.8	-0.47	0.88	35.0	0.19	0.64
		-0.6	2.0		0.5	0.5		6.7	2.6		-1.6	1.3		0.8	1.3
6388	39.8	0.21	0.49	11.0	0.00	0.47	65.4	0.01	0.12	27.5	0.03	0.15	35.0	0.20	0.41
		1.0	0.9		0.0	0.3		0.2	0.3		0.1	0.2		0.8	0.9
6396	37.7	-0.23	0.48	11.9	0.34	1.14	64.9	-0.03	1.06	29.2	0.52	1.09	40.0	1.37	1.32
		-1.1	0.9		0.9	0.7		-0.4	2.5		1.8	1.6		5.8	2.7
6401	29.6	-1.90	0.45	6.7	-1.66	1.22	48.8	-1.43	0.96	23.6	-1.13	0.52	25.6	-2.03	0.87
		-9.2	0.8		-4.3	0.7		-16.5	2.2		-3.9	0.7		-8.6	1.8
6408	38.0	-0.16		8.7	-0.89	0.96	63.3	-0.17	0.25	27.7	0.07	0.41	34.0	-0.04	
		-0.8			-2.3	0.6		-1.9	0.6		0.2	0.6		-0.2	
6620	42.7	0.82	0.11	11.6	0.24	0.19	82.6	1.50	0.31	28.0	0.17	0.56	33.7	-0.11	1.34
		4.0	0.2		0.6	0.1		17.3	0.7		0.6	0.8		-0.5	2.8
6649	33.5	-1.10	0.21	9.3	-0.67	0.12	57.1	-0.71	0.71	24.7	-0.80	0.36	32.1	-0.50	0.62
		-5.3	0.4		-1.7	0.1		-8.2	1.7		-2.7	0.5		-2.1	1.3
6664	39.7	0.19	0.16	10.9	-0.03	0.54	72.9	0.66	0.41	24.9	-0.74	0.28	33.9	-0.07	0.03
		0.9	0.3		-0.1	0.3		7.6	1.0		-2.5	0.4		-0.3	0.1
Grand Median		38.8			11.0			65.3			27.4			34.2	
Median Abs Dev		3.2			1.5			7.8			1.7			1.9	
Avg Within Lab SD		1.8			0.6			2.3			1.4			2.1	
Labs Included		20			20			20			20			20	
Labs Reporting		20			20			20			20			20	

NO3-N ISE (127)

in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups

Data units: mg/kg

6336	34.7	-0.33	1.94	13.3	-0.04	1.84	79.4	1.27	1.49	24.8	-1.32	1.09	31.7	-0.30	1.86
		-1.3	2.1		-0.1	0.5		15.3	1.9		-2.5	0.6		-1.0	0.9
6381	30.3	-1.41		13.4	0.04		47.4	-1.38		27.7	0.17		29.5	-0.94	
		-5.7			0.1			-16.7			0.3			-3.2	

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6382	37.4	0.33 1.3	0.38 0.4	9.2	-2.43 -4.2	0.57 0.2	64.4	0.03 0.3	0.87 1.1	27.0	-0.17 -0.3	1.29 0.8	33.7	0.30 1.0	0.38 0.2
6626	38.6	0.63 2.6	0.27 0.3	13.7	0.19 0.3	0.54 0.1	63.8	-0.03 -0.3	1.01 1.3	29.3	1.03 2.0	1.08 0.6	36.6	1.15 3.9	0.63 0.3
Grand Median		36.0			13.3			64.1			27.4			32.7	
Median Abs Dev		1.9			0.2			7.8			1.2			2.1	
Avg Within Lab SD		1.1			0.3			1.2			0.6			0.5	
Labs Included		4			4			4			4			4	
Labs Reporting		4			4			4			4			4	

NO3-N CTA (128)		in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups										Data units: mg/kg			
6278	37.8			9.4			62.5			27.1			33.9		
6357	36.0			10.3			63.8			26.7			33.8		
6383	34.7			10.7			54.7			27.3			34.0		
Grand Median		36.0			10.3			62.5			27.1			33.9	
Median Abs Dev		1.3			0.4			1.3			0.2			0.0	
Avg Within Lab SD											0.7			3.8	
Labs Included		3			3			3			3			3	
Labs Reporting		3			3			3			3			3	

NH4 - N (KCl Extr.) (130)		in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups										Data units: mg/kg			
6276	16.73	2.10 10.73	1.48 1.22	8.82	-0.26 -0.69	1.61 0.86	8.6	-0.92 -1.7	1.59 0.8	2.86	-0.45 -0.47	0.99 0.40	3.89	-0.74 -1.09	0.35 0.17
6278	6.50	0.10 0.50	0.32 0.26	12.53	1.13 3.02	0.22 0.12	11.0	0.36 0.7	0.88 0.5	4.00	0.64 0.67	1.08 0.44	5.60	0.42 0.62	0.00 0.00
6283	8.00	0.39 2.00	1.91 1.57	10.97	0.55 1.46	2.00 1.07	12.0	0.89 1.6	1.23 0.6	6.07	2.62 2.73	1.60 0.64	7.03	1.40 2.05	1.60 0.81
6284	2.50	-0.68 -3.50		18.00	3.19 8.49		16.0	3.07 5.7		2.50	-0.80 -0.83		2.20	-1.90 -2.78	0.00 0.00
6330	6.54	0.11 0.54	0.16 0.13	11.25	0.65 1.74	0.25 0.13	10.5	0.08 0.1	0.77 0.4	3.07	-0.25 -0.26	1.19 0.48	4.98	0.00 0.00	0.44 0.22
6334	6.00	0.00 0.00		9.00	-0.19 -0.51		11.0	0.36 0.7		4.00	0.64 0.67		5.00	0.01 0.02	
6343	3.30	-0.53 -2.70	0.12 0.10	7.30	-0.83 -2.21	0.19 0.10	8.3	-1.08 -2.0	0.40 0.2	2.30	-0.99 -1.03	0.00 0.00	3.10	-1.28 -1.88	0.00 0.00

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6357	5.67	-0.07	0.18	11.50	0.75	2.15	10.3	-0.05	1.72	3.50	0.16	1.24	6.17	0.81	0.76
6407	7.00	-0.33	0.14	12.00	1.99	1.15	10.3	-0.1	0.9	3.33	0.17	0.50	5.00	1.19	0.38
6408	26.67	0.20	2.11	9.33	0.93		10.3	0.00	1.10	3.33	0.00	1.44	5.00	0.01	
6409	5.33	1.00	1.73	9.00	2.49		9.1	0.0	0.6	3.33	0.00	0.58	4.67	0.02	
6649	5.33	4.04	1.41	9.51	-0.07	0.96	10.3	-0.67	1.16	2.76	0.00	1.01	4.24	-0.21	0.41
6664	4.43	20.67	1.15	9.43	-0.18	0.51	10.3	-1.2	0.6	1.93	0.00	0.40	3.53	-0.31	0.21
		-0.13	0.70		-0.19			0.00	1.10		0.32	1.44		0.47	3.02
		-0.67	0.58		-0.51			0.0	0.6		0.33	0.58		0.69	1.53
		-0.13	0.05		0.00	0.53		-1.25	0.23		-0.55	0.32		-0.51	0.42
		-0.67	0.04		0.00	0.28		-2.3	0.1		-0.58	0.13		-0.74	0.21
		-0.31	0.19		-0.03	0.66		-0.04	0.80		-1.34	0.29		-0.99	0.30
		-1.57	0.15		-0.08	0.35		-0.1	0.4		-1.40	0.12		-1.45	0.15
Grand Median		6.00			9.51			10.3			3.33			4.98	
Median Abs Dev		1.00			1.46			0.7			0.58			0.74	
Avg Within Lab SD		0.82			0.53			0.5			0.40			0.51	
Labs Included		13			13			13			13			13	
Labs Reporting		13			13			13			13			13	

PO4-P Bray P (1:10) (132) in the Phosphorus and Sulfur Property Groups															
Data units: mg/kg															
6278	34.0	-0.40	0.75	17.7	-1.05	1.06	77.7	1.23	1.69	192.7	3.72	1.68	67.0	0.14	0.46
6283	36.0	-3.5	1.0	23.0	-7.7	1.5	53.5	16.8	3.8	71.6	129.1	4.5	61.5	1.9	1.0
6289	43.7	-0.18	0.90	29.3	-0.32	1.05	67.3	-0.54	0.87	60.7	0.23	1.27	64.3	-0.27	1.31
6304	39.7	-1.6	1.2	26.3	-2.4	1.5	60.4	-7.4	1.9	63.9	8.0	3.4	65.8	-3.6	2.9
6306	39.1	0.70	0.43	28.9	0.53	0.40	65.9	0.47	0.68	68.0	-0.08	0.21	67.8	-0.06	0.26
6327	3.4	6.2	0.6	3.2	3.9	0.6	7.7	6.5	1.5	8.8	-2.9	0.6	4.6	-0.7	0.6
6330	39.7	0.25	0.69	26.0	0.12	0.56	62.3	-0.03	0.83	65.3	0.01	0.76	68.3	0.06	0.71
6336	33.3	2.2	0.9	24.5	0.9	0.8	61.3	-0.4	1.9	58.3	0.3	2.0	66.1	0.7	1.6
6338	35.9	0.18	0.68	24.8	0.47	0.81	62.3	0.37	1.34	63.3	0.13	0.51	50.9	0.20	0.34
6353	44.1	1.6	0.9	36.0	3.5	1.2	52.2	5.1	3.0	53.4	4.4	1.4	54.5	2.7	0.8
6664	34.7	-3.89	0.12	23.7	-3.01	1.47	55.0	-3.88	1.35	62.0	-1.58	0.91	61.7	-4.55	1.12
		-34.2	0.2		-22.2	2.1		-53.1	3.0		-54.8	2.5		-60.4	2.4
		0.24	0.43		0.08	0.69		0.11	1.12		0.05	0.94		0.25	1.73
		2.2	0.6		0.6	1.0		1.5	2.5		1.8	2.5		3.3	3.8
		-0.48	1.88		-0.12	2.18		0.03	0.92		-0.15	0.43		0.08	1.31
		-4.2	2.5		-0.9	3.1		0.4	2.1		-5.3	1.2		1.1	2.9
		-0.18	0.60		-0.08	0.44		0.11	0.43		-0.01	0.68		-1.07	1.31
		-1.6	0.8		-0.6	0.6		1.5	1.0		-0.3	1.8		-14.2	2.9
		0.75	2.29		1.43	0.80		-0.63	1.03		-0.29	0.75		-0.79	0.92
		6.6	3.1		10.6	1.2		-8.6	2.3		-10.2	2.0		-10.6	2.0
		-0.32	0.43		-0.23	0.40		-0.43	0.45		-0.05			-0.26	0.26
		-2.9	0.6		-1.7	0.6		-5.8	1.0		-1.6			-3.4	0.6

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6718	42.1	0.52 4.6	0.20 0.3	30.2	0.65 4.8	0.48 0.7	57.2	-0.27 -3.6	0.31 0.7	125.5	1.79 61.9	1.95 5.2	70.0	0.37 4.9	0.90 2.0
Grand Median		37.5		25.4		60.8		63.6		65.1					
Median Abs Dev		3.2		2.9		5.5		4.8		3.3					
Avg Within Lab SD		1.3		1.4		2.2		2.7		2.2					
Labs Included		12		12		12		12		12					
Labs Reporting		12		12		12		12		12					

PO4-P Bray P1 (1:7) (133) in the Phosphorus and Sulfur Property Groups															
Data units: mg/kg															
6283	30.0	0.34 1.6	1.33 1.4	19.9	0.12 0.3	0.55 0.5	44.0	0.54 2.6	1.53 4.1	46.2	2.56 7.2	0.72 1.5	50.1	0.99 4.5	1.28 1.1
6334	28.0	-0.08 -0.4	0.94 1.0	21.0	0.49 1.4	1.22 1.0	43.3	0.41 1.9	1.07 2.9	39.0	0.00 0.0	1.24 2.6	47.3	0.37 1.7	0.67 0.6
6343	18.0	-2.19 -10.4	0.94 1.0	14.0	-1.97 -5.6	1.22 1.0	35.0	-1.35 -6.4		39.0	0.00 0.0	0.47 1.0	41.3	-0.96 -4.3	0.67 0.6
6357	28.8	0.08 0.4	0.68 0.7	19.3	-0.12 -0.3	0.86 0.7	39.5	-0.41 -1.9	0.72 1.9	38.6	-0.14 -0.4	1.31 2.8	44.0	-0.37 -1.7	1.21 1.0
Grand Median		28.4		19.6		41.4		39.0		45.7					
Median Abs Dev		1.0		0.9		2.3		0.2		3.0					
Avg Within Lab SD		1.1		0.8		2.7		2.1		0.9					
Labs Included		4		4		4		4		4					
Labs Reporting		4		4		4		4		4					

PO4-P Olsen/Bicarb (1:20) (134) in the Phosphorus and Sulfur Property Groups															
Data units: mg/kg															
6278	14.5	-0.47 -1.7	0.67 0.6	6.73	-0.91 -2.55	0.20 0.23	20.6	-0.64 -3.1	0.59 1.4	14.7	-0.44 -2.1	0.28 0.4	22.4	-0.51 -3.2	0.22 0.4
6283	15.7	-0.14 -0.5	0.66 0.6	8.77	-0.18 -0.52	0.53 0.60	23.4	-0.07 -0.4	0.43 1.0	15.2	-0.34 -1.6	0.70 1.0	23.5	-0.33 -2.0	0.56 1.0
6291	16.4	0.05 0.2	0.00 0.0	10.13	0.30 0.85	0.57 0.65	27.2	0.71 3.5	0.49 1.2	16.1	-0.15 -0.7	0.07 0.1	24.1	-0.23 -1.4	0.63 1.2
6306	19.0	0.76 2.8	1.09 1.0	10.83	0.55 1.55	0.67 0.76	34.3	2.15 10.6	2.97 7.0	22.2	1.13 5.4	2.10 3.2	32.2	1.08 6.7	1.45 2.6
6330	16.0	-0.05 -0.2	1.09 1.0	9.00	-0.10 -0.29	0.88 1.00	22.0	-0.35 -1.7	1.12 2.6	14.3	-0.52 -2.5	0.38 0.6	25.0	-0.09 -0.6	0.55 1.0
6334	26.7	2.84 10.5	1.26 1.2	16.00	2.39 6.72	3.51 4.00	23.0	-0.15 -0.7	0.73 1.7	31.7	3.13 14.9	0.77 1.2	29.7	0.67 4.1	1.77 3.2
6335	11.9	-1.17 -4.3	0.82 0.8	6.13	-1.12 -3.15	0.10 0.12	22.5	-0.26 -1.3	0.30 0.7	14.8	-0.42 -2.0	0.13 0.2	20.3	-0.84 -5.2	0.28 0.5

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6336	14.5	-0.46	0.77	7.33	-0.69	0.51	22.7	-0.22	0.88	20.7	0.81	0.77	30.3	0.77	0.32
		-1.7	0.7		-1.95	0.58		-1.1	2.1		3.9	1.2		4.8	0.6
6338	19.0	0.76	1.09	10.33	0.37	0.51	28.0	0.87	0.42	18.3	0.32	0.38	28.3	0.45	0.32
		2.8	1.0		1.05	0.58		4.3	1.0		1.5	0.6		2.8	0.6
6357	16.7	0.13	0.76	11.26	0.70	0.48	26.7	0.60	1.52	19.9	0.65	1.53	32.9	1.19	1.53
		0.5	0.7		1.97	0.55		2.9	3.6		3.1	2.3		7.4	2.8
6361	15.7	-0.14	1.26	7.00	-0.81		27.3	0.73	1.06	14.0	-0.59	1.15	24.3	-0.20	1.39
		-0.5	1.2		-2.29			3.6	2.5		-2.8	1.7		-1.2	2.5
6381	15.8	-0.11		8.60	-0.24		20.1	-0.74		15.0	-0.38		22.0	-0.57	
		-0.4			-0.69			-3.6			-1.8			-3.6	
6382	17.2	0.26	1.01	9.17	-0.04	1.39	24.1	0.07	0.88	19.2	0.51	2.44	26.1	0.09	1.15
		1.0	0.9		-0.12	1.59		0.4	2.1		2.4	3.7		0.6	2.1
6383	14.3	-0.51	0.63	6.00	-1.17		18.3	-1.10	1.36	14.0	-0.59	0.67	22.0	-0.57	0.96
		-1.9	0.6		-3.29			-5.4	3.2		-2.8	1.0		-3.6	1.7
6396	19.1	0.78	1.09	11.70	0.86	1.31	28.0	0.86	0.44	18.4	0.33	1.35	30.9	0.87	1.85
		2.9	1.0		2.42	1.49		4.2	1.1		1.6	2.0		5.4	3.3
6401	22.4	1.68	2.00	15.67	2.27	0.58	26.8	0.62	0.21	17.5	0.15	0.10	38.3	2.07	1.71
		6.2	1.8		6.38	0.67		3.1	0.5		0.7	0.2		12.8	3.1
6620	9.1	-1.93	0.18	9.40	0.04	0.77	13.5	-2.08	0.72	8.5	-1.75	0.06	13.0	-2.03	0.39
		-7.1	0.2		0.12	0.88		-10.3	1.7		-8.3	0.1		-12.6	0.7
6626	18.6	0.64	0.06	9.73	0.16	0.13	27.7	0.81	0.18	18.5	0.35	0.20	28.7	0.50	0.03
		2.4	0.1		0.45	0.15		4.0	0.4		1.7	0.3		3.1	0.1
6649	16.5	0.08	1.86	8.35	-0.33	0.66	25.7	0.39	0.82	18.4	0.33	1.27	26.6	0.17	0.66
		0.3	1.7		-0.94	0.75		1.9	2.0		1.6	1.9		1.1	1.2
6664	14.3	-0.51	0.63	10.00	0.25		23.3	-0.08	0.24	14.0	-0.59		24.0	-0.25	
		-1.9	0.6		0.72			-0.4	0.6		-2.8			-1.6	
Grand Median		16.2			9.29			23.7			16.8			25.6	
Median Abs Dev		1.8			1.30			3.1			2.3			3.4	
Avg Within Lab SD		0.9			1.14			2.4			1.5			1.8	
Labs Included		20			20			20			20			20	
Labs Reporting		20			20			20			20			20	

PO4-P Mod. Kelowna (136)

in the Phosphorus and Sulfur Property Groups

Data units: mg/kg

6409	30.0		19.3		37.7		56.0		55.3
Grand Median	30.0		19.3		37.7		56.0		55.3
Median Abs Dev									
Avg Within Lab SD							1.0		0.6
Labs Included	1		1		1		1		1
Labs Reporting	1		1		1		1		1

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	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 Strong Bray (1:10) (137) in the Phosphorus and Sulfur Property Groups															
	Data units: mg/kg														
6278	66.7	0.00	1.66	25.7	-1.18	0.23	183.7	-0.41	0.18	440.7	0.18	0.79	141.3	0.00	0.35
		0.0	3.1		-11.3	0.6		-29.0	1.5		26.0	7.6		0.0	1.2
6306	78.7	0.71	0.31	40.2	0.33	0.50	265.3	0.75	1.57	506.7	0.65	1.26	163.3	0.50	0.63
		12.0	0.6		3.2	1.3		52.7	13.3		92.0	12.1		22.0	2.1
6330	59.7	-0.41	0.31	37.0	0.00	2.09	212.7	0.00	0.95	414.7	0.00	1.52	141.3	0.00	2.05
		-7.0	0.6		0.0	5.3		0.0	8.1		0.0	14.6		0.0	6.8
6338	87.0	1.20	1.43	37.0	0.00	0.40	220.7	0.11	1.23	387.7	-0.19	0.67	176.0	0.79	0.30
		20.3	2.6		0.0	1.0		8.0	10.4		-27.0	6.4		34.7	1.0
6664	49.0	-1.05		55.0	1.87	0.40	64.0	-2.10	0.31	84.3	-2.34	0.16	49.3	-2.09	0.46
		-17.7			18.0	1.0		-148.7	2.6		-330.3	1.5		-92.0	1.5
Grand Median		66.7			37.0			212.7			414.7			141.3	
Median Abs Dev		12.0			3.2			29.0			27.0			22.0	
Avg Within Lab SD		1.8			2.5			8.5			9.6			3.3	
Labs Included		5			5			5			5			5	
Labs Reporting		5			5			5			5			5	

	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	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		
SO4 - S (PO4 Extr.) (139) in the Phosphorus and Sulfur Property Groups															
	Data units: mg/kg														
6276	9.67	0.44	0.21	5.67	-0.18	0.32	31.2	-0.07	0.31	194.2	-0.13	0.44	8.83	-0.03	0.17
		2.67	0.29		-0.97	0.29		-1.5	1.0		-41.4	11.3		-0.50	0.29
6278	2.00	-0.83		2.00	-0.89		22.0	-0.52		294.3	0.19	0.53	1.00	-0.50	
		-5.00			-4.63			-10.7			58.8	13.7		-8.33	
6283	2.77	-0.70	0.27	7.00	0.07	0.90	25.3	-0.36	0.82	235.5	0.00	0.33	7.20	-0.13	0.70
		-4.23	0.38		0.37	0.82		-7.4	2.8		0.0	8.4		-2.13	1.15
6304	2.93	-0.67	0.13	2.51	-0.79	0.29	9.1	-1.15	0.01	102.3	-0.43	0.09	5.42	-0.23	0.10
		-4.07	0.18		-4.12	0.27		-23.6	0.0		-133.2	2.4		-3.91	0.16
6306	12.00	0.83	1.89	14.00	1.41	1.90	50.7	0.87	2.96	219.7	-0.05	0.94	16.33	0.42	2.13
		5.00	2.65		7.37	1.73		18.0	10.0		-15.9	24.2		7.00	3.51
6327	18.62	1.92	1.58	14.43	1.49	2.28	86.9	2.63	0.28	1,645.3	4.56	2.32	29.36	1.20	0.23
		11.62	2.20		7.80	2.08		54.2	0.9		1,409.8	59.8		20.02	0.37
6334	7.00	0.00	0.72	6.33	-0.06	0.63	41.0	0.40	0.78	520.3	0.92	0.98	29.67	1.22	2.13
		0.00	1.00		-0.30	0.58		8.3	2.6		284.8	25.2		20.33	3.51
6338	6.78	-0.04	1.99	11.59	0.95	1.31	34.2	0.07	1.51	260.6	0.08	2.14	16.00	0.40	0.72
		-0.22	2.79		4.96	1.19		1.5	5.1		25.0	55.1		6.67	1.18
6353	13.99	1.15	0.35	14.04	1.42	0.43	72.7	1.95	0.14	82.3	-0.50	0.00	75.54	3.96	0.51
		6.99	0.48		7.41	0.39		40.1	0.5		-153.3	0.0		66.21	0.84
6357	14.07	1.17	1.15	6.63	0.00	0.25	36.2	0.17	0.39	487.0	0.81	0.67	18.03	0.52	1.26
		7.07	1.60		0.00	0.23		3.6	1.3		251.5	17.3		8.70	2.07
6361	7.67	0.11	0.83	7.33	0.13	0.63	32.7	0.00	0.34	450.0	0.69	0.39	9.33	0.00	0.35
		0.67	1.15		0.70	0.58		0.0	1.2		214.5	10.0		0.00	0.58

ALP Program - Participant Web Summary Report - Cycle 07



	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6382	3.10	-0.64	0.17	2.71	-0.75	0.10	24.9	-0.38	0.03	221.4	-0.05	0.09	6.70	-0.16	0.15
6664	5.33	-0.28	0.41	3.33	-0.63	0.63	28.7	-0.19	0.45	124.0	-0.36	0.12	9.33	0.00	0.93
		-1.67	0.58		-3.30	0.58		-4.0	1.5		-111.5	3.0		0.00	1.53
Grand Median		7.00			6.63			32.7			235.5			9.33	
Median Abs Dev		4.07			3.92			7.8			111.5			6.67	
Avg Within Lab SD		1.40			0.91			3.4			25.8			1.65	
Labs Included		13			13			13			13			13	
Labs Reporting		13			13			13			13			13	

K Ammonium Acetate (140) in the Bases (1:10) Property Groups															
															Data units: mg/kg
6283	262.3	0.35	0.41	140.0	-0.34	0.26	677.3	0.01	0.24	847.3	0.71	0.16	181.3	0.16	0.48
6288	242.0	-0.28	0.20	148.7	-8.7	1.7	756.3	1.8	17.8	752.7	76.0	9.1	162.3	3.6	5.5
6289	220.6	-9.0	2.0	118.8	0.0	1.5	411.8	80.8	2.3	412.4	-0.17	0.05	165.4	-0.66	0.18
6291	294.0	-0.95	0.34	160.7	-1.19	0.04	811.7	-2.12	0.03	812.7	-18.7	2.5	193.0	-0.52	0.24
6304	220.0	-30.4	3.4	165.7	-29.9	0.3	661.7	-263.7	2.2	613.6	-3.36	0.07	169.1	-12.3	2.8
6306	324.0	1.34	0.79	181.7	0.48	0.97	892.0	1.09	0.39	947.0	0.39	0.52	226.3	0.65	0.84
6327	247.0	-0.97	1.07	134.0	12.0	6.4	636.3	136.2	28.4	724.7	41.3	28.5	143.8	15.3	9.5
6330	251.3	-31.0	10.7	153.0	0.68	0.83	673.7	-0.11	0.07	764.0	-1.48	0.22	175.0	-0.37	0.33
6334	308.3	2.28	2.72	179.3	17.0	5.5	827.3	-13.8	4.8	812.3	-157.8	12.0	215.0	-8.6	3.7
6335	228.3	73.0	27.0	109.7	1.31	2.43	531.0	1.74	0.69	754.7	1.64	1.76	166.3	2.08	2.84
6336	228.7	-0.12	1.70	127.7	33.0	16.0	623.0	216.5	50.7	644.0	175.7	97.2	150.7	48.6	32.3
6338	281.0	-4.0	16.9	165.3	-0.58	1.67	787.0	-0.31	0.58	778.7	-0.44	2.61	189.0	-1.45	2.80
6343	218.0	0.01	0.90	118.0	0.17	1.18	572.7	-0.01	0.39	745.0	-46.7	144.4	154.0	-33.9	31.8
6353	245.5	0.01	0.90	160.5	0.17	1.18	717.1	-0.01	0.39	729.0	-0.07	3.41	194.1	-0.12	0.49
6357	243.1	0.3	9.0	132.3	4.3	7.8	458.3	-1.8	28.3	801.2	-7.3	188.8	180.9	-2.7	5.6
		1.79	0.15		1.22	0.09		1.22	0.40		0.38	0.49		1.59	0.79
		57.3	1.5		30.7	0.6		151.8	29.5		41.0	27.0		37.3	9.0
		-0.71	0.96		-1.55	0.38		-1.16	0.38		-0.16	0.62		-0.49	0.54
		-22.7	9.5		-39.0	2.5		-144.5	27.9		-16.7	34.2		-11.4	6.1
		-0.70	0.32		-0.83	0.75		-0.42	0.05		-1.19	0.24		-1.16	0.64
		-22.3	3.2		-21.0	4.9		-52.5	3.6		-127.3	13.5		-27.0	7.2
		0.94	1.40		0.66	0.72		0.89	0.07		0.07	0.36		0.48	0.61
		30.0	13.9		16.7	4.7		111.5	5.0		7.3	19.9		11.3	6.9
		-1.03	0.10		-1.22	0.15		-0.82	0.03		-0.25	0.02		-1.01	0.09
		-33.0	1.0		-30.7	1.0		-102.8	2.1		-26.3	1.0		-23.7	1.0
		-0.17	0.73		0.47	1.20		0.33	0.35		-0.40	0.25		0.70	0.83
		-5.5	7.3		11.9	7.9		41.6	25.8		-42.4	13.9		16.4	9.4
		-0.25	2.19		-0.65	0.74		-1.74	4.68		0.28	0.45		0.14	1.56
		-7.9	21.7		-16.3	4.9		-217.2	342.4		29.9	24.9		3.2	17.7

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6361	246.3	-0.15 -4.7	0.91 9.1	148.7	0.00 0.0	0.49 3.2	715.7	0.32 40.2	0.10 7.6	720.0	-0.48 -51.3	0.46 25.5	174.3	-0.14 -3.4	0.37 4.2
6381	251.9	0.03 0.9		135.2	-0.53 -13.5		635.6	-0.32 -39.9		819.0	0.45 47.7		174.4	-0.14 -3.3	
6382	262.7	0.36 11.7	0.38 3.8	154.3	0.22 5.7	2.18 14.4	688.3	0.10 12.8	0.17 12.2	891.3	1.12 120.0	0.47 25.9	179.3	0.07 1.6	0.10 1.2
6396	288.3	1.17 37.3	0.86 8.5	173.3	0.98 24.7	1.69 11.2	801.7	1.01 126.2	0.59 43.1	786.7	0.14 15.3	0.68 37.5	191.7	0.60 14.0	0.80 9.1
6401	262.3	0.35 11.3	0.29 2.9	127.3	-0.85 -21.3	0.38 2.5	666.3	-0.07 -9.2	0.03 2.1	902.0	1.22 130.7	0.20 11.3	176.7	-0.04 -1.0	0.18 2.1
6620	250.7	-0.01 -0.3	0.31 3.1	157.3	0.34 8.7	0.57 3.8	759.3	0.67 83.8	0.03 2.1	744.7	-0.25 -26.7	0.29 16.1	171.7	-0.26 -6.0	0.20 2.3
6626	255.3	0.14 4.3	0.35 3.5	137.0	-0.46 -11.7	0.40 2.6	619.0	-0.45 -56.5	0.07 5.3	832.0	0.57 60.7	0.14 7.5	215.3	1.61 37.6	0.28 3.2
6649	234.8	-0.51 -16.2	0.57 5.7	139.6	-0.36 -9.0	0.40 2.6	641.6	-0.27 -33.9	0.35 25.7	806.4	0.33 35.1	0.15 8.6	178.7	0.04 1.0	0.95 10.8
6664	301.7	1.58 50.7	0.31 3.1	176.3	1.10 27.7	0.53 3.5	715.0	0.32 39.5	0.10 7.2	701.3	-0.65 -70.0	0.07 3.8	217.7	1.71 40.0	0.18 2.1
Grand Median		251.0			148.7			675.5			771.3			177.7	
Median Abs Dev		14.0			15.5			54.5			44.5			11.8	
Avg Within Lab SD		9.9			6.6			73.2			55.4			11.4	
Labs Included		24			24			24			24			24	
Labs Reporting		24			24			24			24			24	

Ca Ammonium Acetate (141)

in the Bases (1:10) Property Groups

Data units: mg/kg

6283	2,409.0	-0.12 -30.2	0.26 29.6	957.0	-0.22 -31.0	0.32 14.1	3,159.7	0.62 366.0	1.02 141.6	4,302.0	0.78 569.2	0.07 30.3	3,861.0	0.49 308.7	0.42 77.0
6289	2,245.7	-0.80 -193.5	0.40 44.6	822.3	-1.20 -165.7	0.20 8.7	2,224.0	-0.96 -569.7	0.09 11.8	2,914.7	-1.12 -818.2	0.03 13.6	2,668.0	-1.41 -884.3	0.12 21.7
6291	2,466.7	0.11 27.5	0.36 40.4	1,166.7	1.29 178.7	0.57 25.2	2,440.0	-0.60 -353.7	1.79 247.6	3,570.0	-0.22 -162.8	0.82 363.9	3,390.0	-0.26 -162.3	0.93 170.9
6304	1,760.3	-2.80 -678.8	0.21 24.0	901.8	-0.62 -86.2	1.64 72.9	2,820.7	0.05 27.0	0.23 32.0	2,959.3	-1.06 -773.5	0.14 63.3	3,057.7	-0.79 -494.7	0.01 2.5
6306	2,461.7	0.09 22.5	1.67 187.9	982.7	-0.04 -5.3	1.20 53.3	2,756.3	-0.06 -37.3	1.48 203.9	3,660.7	-0.10 -72.2	0.43 189.7	3,426.0	-0.20 -126.3	1.08 198.2
6327	2,394.0	-0.19 -45.2	1.16 130.9	1,011.6	0.17 23.6	1.05 46.8	2,577.4	-0.37 -216.3	0.90 124.8	5,076.1	1.84 1,343.2	4.23 1,878.1	3,854.3	0.48 301.9	0.97 178.0
6330	2,622.7	0.76 183.5	1.16 131.1	1,140.0	1.10 152.0	2.61 115.9	2,615.7	-0.30 -178.0	0.60 83.0	3,601.3	-0.18 -131.5	0.14 62.0	3,445.3	-0.17 -107.0	0.44 79.6
6334	2,651.3	0.87 212.2	0.62 70.0	1,141.3	1.11 153.3	1.51 67.3	2,844.3	0.09 50.7	0.81 112.5	3,531.7	-0.28 -201.2	0.18 78.8	3,499.0	-0.09 -53.3	1.01 185.0

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	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	2,374.3	-0.27	1.14	862.0	-0.91	0.15	2,717.0	-0.13	0.67	3,957.0	0.31	0.30	3,748.0	0.31	0.19
6336	2,592.3	0.63	0.16	1,155.0	1.21	1.19	2,651.7	-0.24	0.24	3,686.0	-0.06	0.13	3,172.3	-0.61	0.33
6338	2,955.7	2.13	0.43	1,159.0	1.24	0.58	2,766.7	-0.05	0.35	3,638.0	-0.13	0.18	3,440.0	-0.18	0.11
6343	2,220.0	516.5	49.0	942.0	171.0	26.0	1,632.7	-27.0	48.7	3,474.0	-94.8	79.5	3,212.3	-112.3	20.0
6353	2,316.9	-0.90	0.02	1,173.9	-0.33		3,692.4	-1.97	0.02	3,963.1	-0.35	0.02	4,221.3	-0.54	0.02
6357	2,669.3	-219.2	2.6	989.3	-46.0		3,658.6	-1.52	1.48	4,875.7	-258.8	7.9	4,967.2	-340.0	3.2
6361	2,553.7	-0.50	0.50	1,099.7	1.34	1.00	2,908.0	1.52	1.48	3,779.7	0.32	0.32	3,605.7	1.07	0.18
6381	2,488.5	-122.3	55.8	1,001.7	185.9	44.5	3,359.1	898.7	204.4	4,507.9	230.3	140.0	4,309.5	669.0	32.1
6382	2,472.7	0.95	3.58	924.0	0.01	1.92	3,622.7	1.46	2.85	4,864.3	1.56	1.58	4,629.3	2.26	3.89
6401	2,550.0	230.2	403.8	946.0	1.3	85.5	3,566.7	865.0	394.1	4,873.3	1,142.9	702.5	4,593.3	1,414.9	711.5
6620	2,416.7	0.47	0.67	1,046.7	0.81	0.63	2,723.3	0.19	0.97	3,646.7	0.06	0.25	3,423.3	0.09	0.53
6626	2,165.0	114.5	75.2	809.0	111.7	28.1	2,934.3	114.3	134.6	3,901.0	46.8	111.6	3,657.0	53.3	97.4
6649	2,216.9	0.20		986.7	0.10		2,940.8	0.96		3,817.8	1.06		3,621.3	1.21	
6664	2,363.3	49.3		900.0	13.7		1,640.0	565.4		2,393.3	775.1		3,046.7	757.2	
		0.14	0.40		-0.46	0.06		1.40	1.19		1.55	0.07		1.72	0.43
		33.5	45.6		-64.0	2.6		829.0	164.9		1,131.5	31.5		1,077.0	78.5
		0.46	0.09		-0.30	0.22		1.31	0.27		1.56	0.09		1.66	0.14
		110.8	10.0		-42.0	9.8		773.0	37.9		1,140.5	37.9		1,041.0	25.2
		-0.09	0.51		0.42	0.26		-0.12	0.11		-0.12	0.06		-0.21	0.13
		-22.5	57.7		58.7	11.5		-70.3	15.3		-86.2	25.2		-129.0	23.1
		-1.13	0.03		-1.29	0.23		0.24	0.25		0.23	0.06		0.17	0.08
		-274.2	3.6		-179.0	10.1		140.7	34.0		168.2	25.0		104.7	13.7
		-0.92	0.37		-0.01	0.10		0.25	0.37		0.12	0.62		0.11	1.26
		-222.2	41.2		-1.3	4.5		147.2	50.6		85.0	274.3		69.0	230.0
		-0.31	0.36		-0.64	0.39		-1.95	0.19		-1.83	0.03		-0.81	0.41
		-75.8	40.4		-88.0	17.3		-1,153.7	26.5		-1,339.5	15.3		-505.7	75.7
Grand Median	2,439.2			988.0			2,793.7			3,732.8			3,552.3		
Median Abs Dev	118.4			87.1			197.1			227.2			305.3		
Avg Within Lab SD	112.7			44.4			138.2			444.3			182.8		
Labs Included	22			22			22			22			22		
Labs Reporting	22			22			22			22			22		

Mg Ammonium Acetate (142)

in the Bases (1:10) Property Groups

Data units: mg/kg

6283	424.0	0.29	0.34	89.0	0.15		261.0	0.03	0.42	828.7	0.35	0.08	274.0	0.44	0.24
		11.9	8.2		2.8			0.9	5.2		38.6	2.1		15.4	4.0
6289	415.1	0.07	0.02	74.6	-0.63	0.19	260.9	0.02	0.08	687.7	-0.93	0.12	236.9	-0.61	0.04
		3.1	0.6		-11.6	0.8		0.8	1.0		-102.3	3.2		-21.7	0.7
6291	409.0	-0.07	3.05	37.3	-2.66	0.47	295.3	1.07	3.68	504.7	-2.59	0.10	164.7	-2.65	0.77
		-3.1	73.8		-48.9	2.1		35.2	45.5		-285.4	2.5		-93.9	13.0

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6304	356.3	-1.36	0.16	92.4	0.34	1.64	294.1	1.03	0.72	819.1	0.26	1.89	233.1	-0.72	0.45
		-55.7	3.8		6.2	7.2		33.9	9.0		29.1	49.2		-25.4	7.6
6306	475.0	1.53	1.92	96.0	0.53	2.55	286.0	0.79	1.51	811.0	0.19	1.34	291.0	0.92	0.79
		62.9	46.5		9.8	11.3		25.9	18.7		21.0	35.0		32.4	13.5
6327	400.0	-0.29	0.96	83.8	-0.13	0.75	243.5	-0.50	0.41	846.4	0.51	1.58	266.9	0.23	0.34
		-12.0	23.1		-2.4	3.3		-16.6	5.1		56.4	41.3		8.3	5.8
6330	417.0	0.12	0.68	86.7	0.02	0.35	240.7	-0.59	0.41	656.7	-1.21	0.38	241.3	-0.49	0.07
		4.9	16.5		0.4	1.5		-19.5	5.1		-133.4	10.0		-17.2	1.2
6334	499.3	2.13	0.60	107.0	1.13	2.52	287.0	0.82	0.72	784.3	-0.05	1.18	295.0	1.03	0.83
		87.3	14.5		20.8	11.1		26.9	8.9		-5.7	30.7		36.4	14.1
6335	416.0	0.10	0.69	78.0	-0.45	0.23	245.3	-0.45	0.54	773.0	-0.15	0.33	261.3	0.08	0.09
		3.9	16.6		-8.3	1.0		-14.8	6.7		-17.0	8.7		2.8	1.5
6336	381.3	-0.75	0.32	91.7	0.29	0.69	232.7	-0.83	0.26	666.3	-1.12	0.18	223.3	-1.00	0.30
		-30.7	7.8		5.4	3.1		-27.5	3.2		-123.7	4.7		-35.2	5.1
6338	459.7	1.16	0.06	114.7	1.55	0.13	291.0	0.94	0.14	732.7	-0.52	0.12	285.0	0.75	0.06
		47.6	1.5		28.4	0.6		30.9	1.7		-57.4	3.2		26.4	1.0
6343	355.0	-1.39	0.04	72.9	-0.73	0.00	210.7	-1.50	0.01	719.0	-0.64	0.13	230.9	-0.78	0.00
		-57.1	1.0		-13.4	0.0		-49.4	0.1		-71.0	3.5		-27.7	0.0
6353	377.5	-0.84	0.79	109.8	1.28	0.29	315.0	1.67	1.13	858.0	0.62	1.07	284.0	0.72	0.94
		-34.5	19.2		23.5	1.3		54.9	14.1		67.9	28.0		25.5	16.0
6357	431.7	0.48	2.32	80.2	-0.33	0.82	262.0	0.06	1.42	870.8	0.73	3.04	291.6	0.93	2.24
		19.7	56.0		-6.1	3.6		1.9	17.6		80.7	79.3		33.0	38.1
6361	466.0	1.32	0.52	115.0	1.56	1.04	302.3	1.28	0.53	808.7	0.17	0.64	297.3	1.10	0.39
		53.9	12.5		28.8	4.6		42.2	6.5		18.6	16.8		38.8	6.7
6381	408.9	-0.08		70.6	-0.85		229.5	-0.93		838.8	0.44		255.8	-0.08	
		-3.2			-15.7			-30.6			48.8			-2.8	
6382	433.3	0.52	0.37	78.7	-0.41	0.13	257.7	-0.07	0.68	878.3	0.80	0.51	236.3	-0.63	3.60
		21.3	9.0		-7.6	0.6		-2.5	8.4		88.3	13.3		-22.2	61.2
6401	429.0	0.41	0.04	74.7	-0.63	0.14	265.3	0.16	0.05	926.7	1.24	0.31	282.3	0.67	0.15
		16.9	1.0		-11.6	0.6		5.2	0.6		136.6	8.0		23.8	2.5
6620	403.7	-0.20	0.10	85.8	-0.02	0.37	259.3	-0.02	0.12	692.0	-0.89	0.13	250.7	-0.22	0.59
		-8.4	2.5		-0.4	1.6		-0.8	1.5		-98.0	3.5		-7.9	10.1
6626	369.3	-1.04	0.13	79.7	-0.36	0.13	220.0	-1.22	0.24	739.3	-0.46	0.19	253.0	-0.16	0.10
		-42.7	3.1		-6.6	0.6		-40.1	3.0		-50.7	5.0		-5.6	1.7
6649	392.3	-0.48	0.26	97.2	0.60	1.22	247.0	-0.40	0.27	795.8	0.05	0.93	266.5	0.22	0.42
		-19.8	6.2		11.0	5.4		-13.1	3.4		5.7	24.2		8.0	7.2
6664	404.3	-0.19	0.16	89.7	0.19	0.69	245.0	-0.46	0.29	691.0	-0.90	0.56	244.0	-0.41	0.12
		-7.7	3.8		3.4	3.1		-15.1	3.6		-99.0	14.7		-14.6	2.0
Grand Median		412.1			86.3			260.1			790.0			258.6	
Median Abs Dev		19.7			9.0			22.7			62.7			23.0	
Avg Within Lab SD		24.2			4.4			12.4			26.1			17.0	
Labs Included		22			22			22			22			22	
Labs Reporting		22			22			22			22			22	

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	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 Ammonium Acetate (143) in the Bases (1:10) Property Groups															
	Data units: mg/kg														
6283	15.3	0.16	1.22	13.7	0.18	0.74	172.0	-0.11		837.0	0.25	0.19	16.0	0.00	0.25
		1.3	2.5		1.3	1.5		-3.3			50.0	6.6		0.0	1.0
6289	22.9	1.05	1.23	14.9	0.34	0.88	189.1	0.43	0.12	525.3	-1.32	0.02	17.4	0.12	0.27
		8.9	2.5		2.6	1.8		13.7	0.9		-261.7	0.9		1.4	1.1
6291	8.7	-0.64	0.56	20.0	1.03	1.93	178.3	0.09	2.83	1,166.7	1.92	1.92	12.3	-0.33	0.64
		-5.3	1.2		7.7	4.0		3.0	21.9		379.7	66.6		-3.7	2.5
6306	17.3	0.40	0.56	13.3	0.13	2.90	238.3	1.99	2.21	1,040.3	1.28	2.75	20.0	0.36	0.67
		3.3	1.2		1.0	6.0		63.0	17.2		253.3	95.2		4.0	2.6
6327	17.6	0.43	0.63	12.9	0.08	0.68	183.2	0.25	0.57	876.5	0.45	0.93	21.7	0.52	3.78
		3.6	1.3		0.6	1.4		7.8	4.4		89.5	32.3		5.7	14.9
6330	8.7	-0.64	0.56	5.7	-0.90	0.56	172.3	-0.09	1.07	689.7	-0.49	0.48	8.3	-0.70	0.64
		-5.3	1.2		-6.7	1.2		-3.0	8.3		-97.3	16.6		-7.7	2.5
6334	15.3	0.16	1.56	12.3	0.00	0.28	216.7	1.31	0.91	801.7	0.07	1.27	44.3	2.58	0.15
		1.3	3.2		0.0	0.6		41.3	7.1		14.7	43.9		28.3	0.6
6335	14.0	0.00	0.49	7.7	-0.63	0.28	175.3	0.00	0.75	737.7	-0.25	0.85	14.7	-0.12	0.15
		0.0	1.0		-4.7	0.6		0.0	5.9		-49.3	29.5		-1.3	0.6
6336	11.7	-0.28	0.56	9.7	-0.36	0.28	124.7	-1.60	0.45	477.0	-1.56	0.35	10.7	-0.48	0.29
		-2.3	1.2		-2.7	0.6		-50.7	3.5		-310.0	12.0		-5.3	1.2
6343	2.3	-1.39	0.00	2.3	-1.35	0.00	144.6	-0.97	0.34	707.3	-0.40	0.24	16.5	0.05	0.04
		-11.7	0.0		-10.0	0.0		-30.8	2.7		-79.7	8.1		0.5	0.2
6357	6.1	-0.94	0.64	3.1	-1.25	0.64	157.9	-0.55	0.17	818.4	0.16	0.46	5.4	-0.97	0.34
		-7.9	1.3		-9.3	1.3		-17.5	1.3		31.4	16.1		-10.6	1.3
6361	15.7	0.20	1.01	10.3	-0.27	0.28	178.7	0.11	0.27	710.3	-0.39	0.60	12.7	-0.30	0.15
		1.7	2.1		-2.0	0.6		3.3	2.1		-76.7	20.6		-3.3	0.6
6381	19.7	0.68		19.1	0.91		85.9	-2.83		375.1	-2.08		18.4	0.22	
		5.7			6.8			-89.4			-411.9			2.4	
6382	9.3	-0.56	0.56	6.3	-0.81	0.56	177.0	0.05	1.02	873.0	0.43	0.85	10.0	-0.55	0.44
		-4.7	1.2		-6.0	1.2		1.7	7.9		86.0	29.5		-6.0	1.7
6401	7.7	-0.76	0.86	3.2	-1.23	0.91	171.7	-0.12	0.27	889.7	0.52	0.22	4.4	-1.05	0.08
		-6.4	1.8		-9.1	1.9		-3.7	2.1		102.7	7.6		-11.6	0.3
6620	8.2	-0.69	0.13	12.3	0.00	0.85	189.0	0.43	0.46	751.0	-0.18	0.25	7.8	-0.75	0.07
		-5.8	0.3		0.0	1.8		13.7	3.6		-36.0	8.7		-8.2	0.3
6626	35.0	2.50	0.49	24.0	1.57	0.83	185.7	0.33	0.45	842.3	0.28	0.33	40.0	2.18	0.44
		21.0	1.0		11.7	1.7		10.3	3.5		55.3	11.5		24.0	1.7
6649	22.1	0.96	2.97	22.0	1.31	0.89	130.9	-1.40	0.51	633.2	-0.78	1.60	25.6	0.87	1.23
		8.1	6.1		9.7	1.9		-44.4	4.0		-153.8	55.6		9.6	4.8
6664	10.7	-0.40	0.28	9.0	-0.45	0.83	171.0	-0.14	0.13	787.0	0.00	0.15	23.3	0.67	1.06
		-3.3	0.6		-3.3	1.7		-4.3	1.0		0.0	5.3		7.3	4.2

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	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	14.0			12.3			175.3			787.0			16.0		
Median Abs Dev	5.3			4.7			10.3			86.0			5.7		
Avg Within Lab SD	2.1			2.1			7.8			34.6			3.9		
Labs Included	19			19			19			19			19		
Labs Reporting	19			19			19			19			19		

Bray Extractable K (144)		in the Bases (1:10) Property Groups					Data units: mg/kg		
6304	160.9		120.2		491.7		455.8		122.8
Grand Median	160.9		120.2		491.7		455.8		122.8
Median Abs Dev									
Avg Within Lab SD							8.8		2.8
Labs Included	1		1		1		1		1
Labs Reporting	1		1		1		1		1

K- Bicarb. (145)		in the Bases (1:10) Property Groups					Data units: mg/kg		
6278	202.3		136.3		500.7		526.0		161.0
6291	264.3		190.3		739.0		651.3		194.0
6357	174.6		113.9		477.5		483.1		143.9
Grand Median	202.3		136.3		500.7		526.0		161.0
Median Abs Dev	27.8		22.5		23.2		42.9		17.1
Avg Within Lab SD							16.5		9.5
Labs Included	3		3		3		3		3
Labs Reporting	3		3		3		3		3

Aluminum KCL Extr. (148)		in the Bases (1:10) Property Groups					Data units: mg/kg		
6330	1.33		1.33		2.00		1.00		1.00



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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
Grand Median		1.33			1.33			2.00			1.00			1.00	
Median Abs Dev															
Avg Within Lab SD										0.00			0.00		
Labs Included		1			1			1			1			1	
Labs Reporting		1			1			1			1			1	

P (149)		in the Mehlich-1 Multi Element (scoop) Property Groups										Data units: mg/kg			
6388	46.5			18.3			161.6			393.6			72.6		
Grand Median		46.5			18.3			161.6			393.6			72.6	
Median Abs Dev															
Avg Within Lab SD										5.5			2.1		
Labs Included		1			1			1			1			1	
Labs Reporting		1			1			1			1			1	

K (150)		in the Mehlich-1 Multi Element (scoop) Property Groups										Data units: mg/kg			
6388	151.0			107.4			422.3			334.7			107.8		
Grand Median		151.0			107.4			422.3			334.7			107.8	
Median Abs Dev															
Avg Within Lab SD										4.6			0.6		
Labs Included		1			1			1			1			1	
Labs Reporting		1			1			1			1			1	

Ca (151)		in the Mehlich-1 Multi Element (scoop) Property Groups										Data units: mg/kg			
6388	1,711.5			971.1			3,448.2			3,867.7			4,494.3		
Grand Median		1,711.5			971.1			3,448.2			3,867.7			4,494.3	
Median Abs Dev															
Avg Within Lab SD										50.5			45.3		
Labs Included		1			1			1			1			1	
Labs Reporting		1			1			1			1			1	



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SRS0811		SRS0812			SRS0813			SRS0814			SRS0815			
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			
Mg (152) in the Mehlich-1 Multi Element (scoop) Property Groups														
Data units: mg/kg														
6388	299.0		83.2			252.6			732.6			281.6		
Grand Median	299.0		83.2			252.6			732.6			281.6		
Median Abs Dev														
Avg Within Lab SD									8.7			4.0		
Labs Included	1		1			1			1			1		
Labs Reporting	1		1			1			1			1		
Mn (153) in the Mehlich-1 Multi Element (scoop) Property Groups														
Data units: mg/kg														
6388	31.7		48.7			36.0			7.63			19.0		
Grand Median	31.7		48.7			36.0			7.63			19.0		
Median Abs Dev														
Avg Within Lab SD									0.11			0.5		
Labs Included	1		1			1			1			1		
Labs Reporting	1		1			1			1			1		
Zn (154) in the Mehlich-1 Multi Element (scoop) Property Groups														
Data units: mg/kg														
6388	1.22		1.59			0.77			1.97			1.50		
Grand Median	1.22		1.59			0.77			1.97			1.50		
Median Abs Dev														
Avg Within Lab SD									0.06			0.15		
Labs Included	1		1			1			1			1		
Labs Reporting	1		1			1			1			1		
Scoop Density (155) in the Mehlich-3 Multi-Element Property Groups														
Data units: g/cm3														
6276	2.04		2.17			2.21			1.68			1.84		
6289	1.13		1.12			1.28			0.98			1.09		

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
Grand Median		1.59			1.65			1.75		1.33			1.46		
Median Abs Dev		0.45			0.52			0.47		0.35			0.37		
Avg Within Lab SD										0.01			0.04		
Labs Included		2			2			2		2			2		
Labs Reporting		2			2			2		2			2		

P Colorimetric (156) in the Mehlich-3 Multi-Element Property Groups															
Data units: mg/kg															
6288	35.3	-0.80	0.26	22.5	-0.54	0.32	63.7	0.02	0.21	120.3	0.17	0.96	58.3	-0.59	0.31
		-5.7	0.6		-3.8	0.5		0.2	0.6		5.3	1.2		-7.1	0.6
6306	45.0	0.56	1.55	28.3	0.28	0.98	86.7	2.23	1.10	146.3	1.01	1.26	79.3	1.14	1.34
		4.0	3.5		2.0	1.5		23.2	3.1		31.3	1.5		13.9	2.5
6338	40.3	-0.09	0.93	24.3	-0.28	0.98	48.0	-1.49	0.72	109.7	-0.17	1.26	42.3	-1.90	1.34
		-0.7	2.1		-2.0	1.5		-15.5	2.0		-5.3	1.5		-23.1	2.5
6353	53.7	1.79	1.61	38.1	1.65	1.64	65.9	0.23	1.89	78.9	-1.16	0.98	66.6	0.09	1.26
		12.7	3.6		11.7	2.6		2.4	5.2		-36.2	1.2		1.1	2.4
6664	36.0	-0.71		20.0	-0.89	0.64	63.3	-0.02	0.75	150.0	1.12	0.83	64.3	-0.09	0.62
		-5.0			-6.3	1.0		-0.2	2.1		35.0	1.0		-1.1	1.2
6718	41.7	0.09	0.26	29.2	0.41	0.95	62.8	-0.06	0.32	102.1	-0.41	0.50	68.4	0.24	0.59
		0.7	0.6		2.9	1.5		-0.7	0.9		-12.9	0.6		2.9	1.1
Grand Median		41.0			26.3			63.5		115.0			65.5		
Median Abs Dev		4.5			3.4			1.6		22.1			5.0		
Avg Within Lab SD		2.2			1.6			2.8		1.2			1.9		
Labs Included		6			6			6		6			6		
Labs Reporting		6			6			6		6			6		

P ICP-AES (157) in the Mehlich-3 Multi-Element Property Groups															
Data units: mg/kg															
6276	43.7	-0.02	1.80	33.5	0.00	1.11	74.7	0.30	1.62	130.5	0.19	1.30	85.7	0.15	0.93
		-0.1	3.7		0.0	1.8		2.2	5.8		3.3	6.3		1.2	3.8
6284	53.0	1.63	1.76	42.3	1.64	0.36	85.3	1.76	1.54	142.7	0.91	1.88	101.7	2.25	2.60
		9.2	3.6		8.8	0.6		12.8	5.5		15.4	9.1		17.2	10.6
6289	42.8	-0.18	0.41	29.9	-0.67	0.09	68.4	-0.55	0.25	142.5	0.90	0.31	82.4	-0.27	0.25
		-1.0	0.8		-3.6	0.1		-4.0	0.9		15.3	1.5		-2.1	1.0
6304	42.1	-0.30	0.21	33.5	0.00	1.57	72.8	0.05	0.23	122.5	-0.28	0.31	83.9	-0.08	0.20
		-1.7	0.4		0.0	2.6		0.3	0.8		-4.8	1.5		-0.6	0.8
6322	42.2	-0.29	0.51	32.7	-0.16	0.18	80.5	1.09	0.85	144.7	1.03	0.69	84.5	0.00	0.44
		-1.6	1.0		-0.8	0.3		8.0	3.0		17.4	3.3		0.0	1.8
6333	49.3	0.98	0.28	37.0	0.65		80.7	1.12	1.29	124.0	-0.19	0.55	95.3	1.42	0.51
		5.5	0.6		3.5			8.2	4.6		-3.3	2.6		10.8	2.1

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6336	31.3	-2.22	0.75	21.3	-2.26	0.36	66.3	-0.84	0.98	119.7	-0.45	1.14	74.7	-1.29	0.62
6353	49.1	0.94	1.28	39.7	1.16	2.32	69.3	-0.44	1.19	103.4	-1.41	1.46	92.4	1.03	0.98
6388	44.7	5.3	2.6	33.6	6.2	3.8	72.2	-3.2	4.3	131.4	-23.9	7.0	82.7	7.9	4.0
6718	43.9	0.15	0.60	32.4	0.02	0.40	68.4	-0.05	0.24	108.2	0.24	0.43	84.5	-0.24	0.48
		0.9	1.2		0.1	0.6		-0.3	0.9		4.1	2.1		-1.9	1.9
		0.02	0.74		-0.20	0.69		-0.56	0.23		-1.13	0.45		0.00	0.48
		0.1	1.5		-1.1	1.1		-4.1	0.8		-19.1	2.2		0.0	2.0
Grand Median		43.8			33.5			72.5			127.3			84.5	
Median Abs Dev		1.7			2.3			4.1			11.4			2.0	
Avg Within Lab SD		2.0			1.6			3.6			4.8			4.1	
Labs Included		10			10			10			10			10	
Labs Reporting		10			10			10			10			10	

	K (158) in the Mehlich-3 Multi-Element Property Groups															Data units: mg/kg
	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	
6276	257.5	-0.22	1.25	154.0	-0.11	0.83	747.5	-0.07	0.57	788.8	0.09	0.87	178.7	-0.07	1.39	
6284	292.0	-5.2	13.0	175.0	-1.8	7.5	838.0	-4.4	15.6	862.0	6.1	35.7	192.3	-1.3	7.6	
6288	242.0	1.25	0.67	148.7	1.15	0.29	756.3	1.46	1.58	752.7	1.15	0.52	162.3	0.63	0.46	
6289	243.1	29.3	7.0	122.5	19.2	2.6	681.3	86.1	43.1	701.3	79.3	21.4	164.7	12.3	2.5	
6304	249.5	-0.88	0.19	155.4	-0.42	0.17	677.0	0.07	0.08	670.7	-0.44	0.06	153.2	-0.91	0.38	
6322	268.8	-20.7	2.0	156.2	-7.1	1.5	764.0	4.4	2.3	767.0	-30.1	2.5	174.2	-17.7	2.1	
6333	275.7	-0.84	0.14	172.0	-1.98	0.28	781.3	-1.20	0.11	805.7	-1.18	0.10	197.0	-0.79	0.15	
6336	245.7	-19.6	1.5	164.7	-33.3	2.5	739.7	-70.6	3.0	764.0	-81.5	4.3	181.0	-15.3	0.8	
6338	263.3	-0.56	2.06	151.0	-0.02	2.16	715.0	-1.27	0.73	797.3	-1.63	1.26	179.0	-1.38	0.62	
6353	262.2	-13.2	21.4	158.7	-0.4	19.7	776.0	-75.0	19.8	776.7	-112.0	51.9	197.4	-26.8	3.4	
6388	321.4	0.26	0.50	195.5	0.02	0.46	869.4	0.20	0.46	890.2	-0.23	0.33	216.8	-0.30	0.32	
6718	268.7	6.1	5.3	154.7	0.4	4.2	747.3	12.1	12.6	845.3	-15.7	13.6	185.0	-5.8	1.8	
		0.55	0.39		0.97	0.40		0.50	0.36		0.33	0.12		0.87	0.37	
		12.9	4.0		16.2	3.6		29.4	9.8		22.9	4.9		17.0	2.0	
		-0.73	0.49		0.53	0.49		-0.21	0.37		-0.27	0.41		0.05	1.20	
		-17.1	5.1		8.9	4.5		-12.3	10.0		-18.7	16.8		1.0	6.6	
		0.03	1.76		-0.29	1.98		-0.63	2.49		0.21	0.97		-0.05	1.59	
		0.6	18.3		-4.8	18.1		-36.9	67.8		14.6	39.8		-1.0	8.7	
		-0.03	0.90		0.17	0.30		0.41	1.00		-0.09	0.49		0.89	1.82	
		-0.6	9.4		2.9	2.8		24.1	27.1		-6.1	20.1		17.4	9.9	
		2.50	0.06		2.37	0.24		1.99	0.57		1.56	0.20		1.89	0.57	
		58.7	0.6		39.7	2.2		117.5	15.5		107.5	8.2		36.8	3.1	
		0.25	1.07		-0.07	1.33		-0.08	0.78		0.91	2.81		0.26	1.20	
		5.9	11.2		-1.1	12.1		-4.6	21.2		62.6	115.5		5.0	6.6	



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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
Grand Median		262.7				155.8						782.7			180.0
Median Abs Dev		13.1				6.0						26.5			13.8
Avg Within Lab SD		10.4				9.1						41.2			5.4
Labs Included		12				12						12			12
Labs Reporting		12				12						12			12

Ca (159) in the Mehlich-3 Multi-Element Property Groups															
															Data units: mg/kg
6276	2,454.3	-0.58	1.92	1,142.5	-0.75	1.09	4,106.7	0.73	0.24	4,587.0	0.49	2.16	4,657.3	0.60	1.37
		-136.7	139.3		-101.2	43.4		260.8	49.6		190.3	213.3		224.0	143.3
6284	2,885.0	1.25	0.95	1,403.0	1.17	0.39	4,546.3	1.97	0.43	5,023.0	1.62	1.68	4,805.0	1.00	1.80
		294.0	68.7		159.3	15.7		700.4	89.7		626.3	165.6		371.7	188.6
6288	2,296.3	-1.25	0.08	1,166.7	-0.57	0.26	3,763.3	-0.23	0.01	4,007.3	-1.01	0.05	4,168.3	-0.71	0.15
		-294.7	5.5		-77.0	10.4		-82.6	2.9		-389.3	4.6		-265.0	16.1
6289	2,378.7	-0.90	0.35	1,070.3	-1.28	0.29	3,559.0	-0.81	0.16	3,924.7	-1.22	0.10	3,715.7	-1.93	0.20
		-212.3	25.7		-173.3	11.5		-286.9	32.8		-472.0	9.5		-717.7	21.2
6304	2,349.0	-1.03	0.43	1,203.0	-0.30	2.44	3,763.7	-0.23	0.20	3,948.3	-1.16	0.85	4,079.7	-0.95	0.03
		-242.0	31.6		-40.7	97.2		-82.2	42.5		-448.3	84.2		-353.7	3.5
6322	2,651.0	0.25	1.19	1,262.3	0.14	0.84	3,649.3	-0.55	3.11	4,516.2	0.31	0.75	4,433.3	0.00	0.44
		60.0	86.3		18.7	33.3		-196.6	655.7		119.5	74.4		0.0	45.7
6333	2,644.3	0.23	0.83	1,270.3	0.20	0.67	3,979.7	0.38	0.56	4,396.7	0.00	0.17	4,495.3	0.17	0.45
		53.3	59.9		26.7	26.5		133.8	118.4		0.0	16.3		62.0	47.4
6336	2,792.3	0.85	0.73	1,503.7	1.92	1.30	4,486.7	1.80	0.33	4,767.3	0.96	0.50	4,810.7	1.01	1.70
		201.3	52.7		260.0	51.8		640.8	69.3		370.7	49.0		377.3	177.7
6353	2,466.2	-0.53	0.96	1,136.5	-0.79	0.62	3,845.9	0.00	0.65	4,184.3	-0.55	0.66	4,302.7	-0.35	0.87
		-124.8	69.6		-107.2	24.8		0.0	136.7		-212.4	64.9		-130.6	91.0
6388	2,723.3	0.56	1.17	1,286.9	0.32	0.25	3,867.1	0.06	0.18	4,391.1	-0.01	1.15	4,541.5	0.29	1.00
		132.3	84.9		43.3	9.9		21.2	36.9		-5.6	113.7		108.1	105.0
6718	2,591.0	0.00	1.10	1,243.7	0.00	0.53	3,608.0	-0.67	0.35	4,432.0	0.09	0.39	4,284.7	-0.40	0.87
		0.0	79.5		0.0	21.1		-237.9	72.8		35.3	38.2		-148.7	91.0
Grand Median		2,591.0				1,243.7									4,433.3
Median Abs Dev		136.7				77.0					212.4				224.0
Avg Within Lab SD		72.6				39.9					98.6				104.6
Labs Included		11				11					11				11
Labs Reporting		11				11					11				11

Mg (160) in the Mehlich-3 Multi-Element Property Groups															
															Data units: mg/kg
6276	425.8	0.00	1.97	110.2	-0.18	1.36	352.8	0.19	1.15	1,014.3	0.13	1.38	311.5	0.28	2.61
		0.0	19.9		-1.9	5.8		3.4	9.6		12.0	38.9		6.6	27.3

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6284	516.3	2.31	0.99	129.7	1.66	1.28	394.3	2.56	1.33	1,082.7	0.87	1.32	343.7	1.66	0.68
6288	408.7	-0.44	0.32	90.7	-2.01	0.58	330.0	-1.10	0.60	849.7	-1.66	0.02	297.0	-0.34	0.25
6289	419.9	-17.2	3.2	107.3	-21.4	2.5	337.8	-19.4	5.0	921.2	-152.7	0.6	285.8	-7.9	2.6
6304	420.1	-0.15	0.03	108.9	-0.45	0.31	346.3	-0.66	0.01	964.8	-0.88	0.54	274.6	-0.81	0.16
6322	469.3	-5.9	0.4	117.2	-4.8	1.3	358.3	-11.6	0.1	1,002.3	-81.2	15.3	299.8	-19.0	1.7
6333	464.0	-0.15	0.45	119.7	-0.30	1.98	364.7	-0.18	1.27	1,026.7	-0.41	2.04	319.3	-1.30	0.85
6336	415.7	-5.7	4.6	118.3	-3.2	8.5	333.7	-3.1	10.6	928.3	-37.5	57.6	292.3	-30.3	8.9
6353	424.2	1.11	1.13	112.0	0.48	0.27	344.0	0.51	0.59	939.5	0.00	0.54	304.9	-0.22	0.40
6388	490.8	43.5	11.4	106.3	5.1	1.2	349.4	8.9	4.9	1,012.6	0.0	15.3	319.1	-5.0	4.2
6718	438.7	0.97	1.00	117.3	0.72	0.58	352.0	0.87	0.37	1,149.0	0.26	0.15	329.3	0.62	0.48
		38.2	10.1		7.6	2.5		15.3	3.1		24.3	4.2		14.5	5.0
		-0.26	0.45		0.59	1.19		-0.90	1.79		-0.81	0.20		-0.54	1.19
		-10.2	4.5		6.3	5.1		-15.7	14.8		-74.0	5.7		-12.5	12.4
		-0.04	1.71		0.00	0.76		-0.31	1.28		-0.68	0.53		0.00	1.02
		-1.6	17.3		0.0	3.3		-5.4	10.7		-62.8	15.1		0.0	10.7
		1.66	0.54		-0.54	0.72		0.00	0.61		0.11	0.68		0.61	0.13
		64.9	5.4		-5.7	3.1		0.0	5.1		10.2	19.1		14.2	1.3
		0.33	0.32		0.50	0.48		0.15	0.48		1.60	1.35		1.05	0.29
		12.9	3.3		5.3	2.1		2.6	4.0		146.7	38.0		24.5	3.1
Grand Median		425.8		112.0			349.4			1,002.3			304.9		
Median Abs Dev		12.9		5.3			8.9			62.8			14.2		
Avg Within Lab SD		10.1		4.3			8.3			28.2			10.5		
Labs Included		11		11			11			11			11		
Labs Reporting		11		11			11			11			11		

Na (161)

in the Mehlich-3 Multi-Element Property Groups

Data units: mg/kg

6284	16.7	0.08	0.84	13.0	-0.02	1.23	215.3	1.30	1.28	854.7	1.29	2.18	19.3	-0.03	0.92
6289	23.7	0.4	1.2	16.4	-0.1	1.0	209.7	49.9	11.7	789.8	184.2	46.1	31.7	-0.2	2.1
6322	21.7	1.61	0.42	18.0	0.89	0.70	174.0	1.15	0.16	633.3	0.84	0.42	19.7	2.12	1.50
6336	14.7	7.4	0.6	12.7	3.3	0.6	139.0	44.3	1.5	600.7	119.3	8.9	14.7	12.2	3.4
6353	12.7	1.16	1.84	6.8	1.31	1.23	148.0	0.22	0.90	541.1	-0.26	0.48	22.4	0.03	1.43
6718	15.9	5.4	2.5	13.2	4.9	1.0	156.8	8.6	8.2	707.7	-37.2	10.1	16.5	0.2	3.2
		-0.35	0.42		-0.11	0.71		-0.69	1.61		-0.49	0.43		-0.84	0.26
		-1.6	0.6		-0.4	0.6		-26.4	14.7		-69.8	9.0		-4.8	0.6
		-0.77	0.94		-1.69	1.16		-0.45	0.78		-0.91	0.31		0.51	0.84
		-3.6	1.3		-6.3	0.9		-17.4	7.1		-129.4	6.6		2.9	1.9
		-0.08	0.82		0.02	0.80		-0.22	0.56		0.26	0.74		-0.52	0.27
		-0.4	1.1		0.1	0.7		-8.6	5.1		37.2	15.5		-3.0	0.6

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
Grand Median		16.3			13.1			165.4			670.5			19.5	
Median Abs Dev		2.6			1.9			21.9			94.6			3.0	
Avg Within Lab SD		1.4			0.8			9.1			21.1			2.3	
Labs Included		6			6			6			6			6	
Labs Reporting		6			6			6			6			6	

S (162)		in the Mehlich-3 Multi-Element Property Groups											Data units: mg/kg		
6284	11.0	-0.67	0.81	10.0	-0.31		32.0	-1.24		332.7	-0.47	0.66	21.0	-0.70	0.62
		-4.7	1.0		-1.7			-15.5			-130.3	9.6		-9.9	1.0
6289	15.0	-0.10	1.68	19.2	1.39	0.11	49.5	0.16	0.32	509.2	0.17	0.32	29.1	-0.13	0.51
		-0.7	2.1		7.5	0.1		2.0	0.5		46.2	4.6		-1.8	0.8
6304	12.0	-0.52	0.60	10.3	-0.25	1.34	37.3	-0.82	0.06	420.9	-0.15	0.66	22.3	-0.61	0.40
		-3.6	0.7		-1.3	1.1		-10.3	0.1		-42.1	9.6		-8.6	0.7
6322	29.7	2.02	1.24	19.3	1.43	1.89	64.3	1.34	0.67	463.0	0.00	0.14	52.0	1.49	1.07
		14.0	1.5		7.7	1.5		16.8	1.2		0.0	2.0		21.1	1.7
6333	15.7	0.00	0.51	15.7	0.74	0.78	48.7	0.09	0.67	497.4	0.12	0.23	30.9	0.00	0.25
		0.0	0.6		4.0	0.6		1.2	1.2		34.4	3.3		0.0	0.4
6336	7.7	-1.15	0.47	6.0	-1.06		72.7	2.00	2.19	1,189.0	2.61	2.71	35.0	0.29	1.24
		-8.0	0.6		-5.7			25.1	3.8		726.0	39.7		4.1	2.0
6353	23.3	1.10	1.74	11.7	0.00	0.40	47.5	0.00	0.75	213.3	-0.90	0.75	59.4	2.01	1.28
		7.6	2.1		0.0	0.3		0.0	1.3		-249.7	11.0		28.5	2.1
6388	16.2	0.07	0.16	15.1	0.63	0.50	46.0	-0.12	0.42	499.3	0.13	0.23	27.9	-0.22	0.52
		0.5	0.2		3.4	0.4		-1.5	0.7		36.3	3.4		-3.1	0.8
6718	18.6	0.43	0.26	10.3	-0.25	1.27	43.8	-0.30	1.21	37.0	-1.53	0.15	39.9	0.63	1.88
		3.0	0.3		-1.3	1.0		-3.7	2.1		-426.0	2.3		9.0	3.0
Grand Median		15.7			11.7			47.5			463.0			30.9	
Median Abs Dev		3.6			3.4			3.7			46.2			8.6	
Avg Within Lab SD		1.2			0.8			1.7			14.7			1.6	
Labs Included		9			9			9			9			9	
Labs Reporting		9			9			9			9			9	

Al (163)		in the Mehlich-3 Multi-Element Property Groups											Data units: mg/kg		
6289	713.9			422.3			205.2			361.8			471.5		
6336	818.3			551.3			324.7			426.7			566.7		

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
Grand Median		766.1			486.8			264.9		394.2		519.1			
Median Abs Dev		52.2			64.5			59.7		32.4		47.6			
Avg Within Lab SD										14.9		18.8			
Labs Included		2			2			2		2		2			
Labs Reporting		2			2			2		2		2			

Zn (164)			in the Mehlich-3 Multi-Element Property Groups									Data units: mg/kg			
6284	2.73	0.84	0.89	2.87	0.77	0.76	1.77	0.39	0.90	8.13	0.82	1.23	3.77	0.41	1.94
		0.37	0.15		0.30	0.12		0.20	0.12		1.07	0.32		0.24	0.38
6289	2.29	-0.18	0.24	2.25	-0.84	0.32	1.41	-0.31	0.14	7.06	0.00	0.31	3.11	-0.72	0.28
		-0.08	0.04		-0.32	0.05		-0.16	0.02		0.00	0.08		-0.42	0.06
6304	2.12	-0.56	0.49	2.32	-0.66	1.27	1.36	-0.40	0.20	6.75	-0.24	0.36	2.75	-1.34	0.12
		-0.25	0.08		-0.25	0.19		-0.21	0.03		-0.32	0.09		-0.78	0.02
6322	3.17	1.84	0.34	3.37	2.08	1.37	2.53	1.89	0.45	8.53	1.13	0.58	4.10	0.98	0.51
		0.80	0.06		0.80	0.21		0.97	0.06		1.47	0.15		0.57	0.10
6333	2.37	0.00	0.34	2.63	0.16	0.38	1.63	0.13	1.19	7.93	0.67	0.22	3.63	0.18	0.30
		0.00	0.06		0.06	0.06		0.07	0.15		0.87	0.06		0.10	0.06
6336	1.77	-1.38	0.34	2.13	-1.14	0.38	1.27	-0.59	0.45	5.67	-1.08	2.20	2.70	-1.43	0.89
		-0.60	0.06		-0.44	0.06		-0.30	0.06		-1.40	0.58		-0.83	0.17
6353	2.59	0.51	2.62	2.60	0.08	1.94	2.37	1.57	2.46	5.58	-1.14	1.27	3.53	0.00	1.65
		0.22	0.45		0.03	0.30		0.80	0.31		-1.48	0.33		0.00	0.32
6388	2.18	-0.42	0.32	2.44	-0.34	0.50	1.17	-0.78	0.14	7.05	-0.01	0.28	3.04	-0.85	0.38
		-0.18	0.06		-0.13	0.08		-0.40	0.02		-0.01	0.07		-0.49	0.08
6718	2.51	0.33	0.78	2.57	0.00	0.75	1.57	0.00	0.45	8.33	0.98	0.58	3.63	0.18	1.07
		0.14	0.13		0.00	0.11		0.00	0.06		1.27	0.15		0.10	0.21
Grand Median		2.37			2.57			1.57		7.06		3.53			
Median Abs Dev		0.22			0.25			0.21		1.07		0.42			
Avg Within Lab SD		0.17			0.15			0.13		0.26		0.19			
Labs Included		9			9			9		9		9			
Labs Reporting		9			9			9		9		9			

Mn (165)			in the Mehlich-3 Multi-Element Property Groups									Data units: mg/kg			
6284	93.7	0.55	0.83	153.0	0.47	1.65	174.3	1.35	0.14	181.7	0.64	0.67	73.0	0.94	0.60
		6.2	1.5		9.7	7.9		21.2	0.6		14.9	2.5		12.0	1.0
6289	71.4	-1.42	0.99	110.6	-1.57	0.34	132.8	-1.29	0.50	135.7	-1.33	0.40	46.5	-1.14	0.30
		-16.1	1.8		-32.6	1.6		-20.3	2.0		-31.1	1.5		-14.5	0.5
6304	94.8	0.65	1.17	155.5	0.59	1.75	152.8	-0.02	1.42	159.5	-0.31	2.18	58.6	-0.19	0.40
		7.3	2.2		12.2	8.4		-0.3	5.8		-7.3	8.2		-2.4	0.7

ALP Program - Participant Web Summary Report - Cycle 07



	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6322	97.0	0.84 9.5	1.63 3.0	161.3	0.87 18.1	0.73 3.5	156.7	0.22 3.5	1.56 6.4	167.3	0.02 0.5	1.00 3.8	61.0	0.00 0.0	0.60 1.0
6333	87.0	-0.04 -0.5		151.3	0.39 8.1	0.67 3.2	159.0	0.37 5.9	0.43 1.7	170.3	0.15 3.5	0.15 0.6	64.0	0.24 3.0	0.60 1.0
6336	67.7	-1.75 -19.8	1.13 2.1	129.3	-0.67 -13.9	1.15 5.5	124.7	-1.81 -28.5	1.13 4.6	136.3	-1.31 -30.5	0.85 3.2	44.3	-1.31 -16.7	1.84 3.1
6353	92.4	0.44 5.0	1.10 2.0	143.3	0.00 0.0	0.53 2.5	153.1	0.00 0.0	1.13 4.6	166.8	0.00 0.0	0.17 0.7	68.2	0.56 7.2	0.84 1.4
6388	83.2	-0.38 -4.3	0.81 1.5	138.1	-0.25 -5.2	0.57 2.7	137.4	-1.00 -15.7	0.55 2.3	148.5	-0.79 -18.3	0.55 2.1	53.5	-0.59 -7.5	0.55 0.9
6718	87.5	0.00 0.0	0.37 0.7	117.3	-1.25 -25.9	0.43 2.1	153.3	0.01 0.2	1.11 4.5	202.3	1.52 35.5	1.25 4.7	75.2	1.11 14.2	1.81 3.0
Grand Median		87.5		143.3			153.1			166.8			61.0		
Median Abs Dev		6.2		12.2			5.9			14.9			7.5		
Avg Within Lab SD		1.8		4.8			4.1			3.8			1.7		
Labs Included		9		9			9			9			9		
Labs Reporting		9		9			9			9			9		

Fe (166)		in the Mehlich-3 Multi-Element Property Groups												Data units: mg/kg		
6284	114.0	-0.11 -1.7	1.40 5.0	162.0	0.04 0.8	1.51 7.8	83.3	-0.03 -0.4	1.75 8.1	44.7	-0.19 -2.2	0.57 1.2	167.7	-0.18 -2.2	1.18 5.5	
6289	95.8	-1.26 -19.9	0.15 0.5	133.0	-1.33 -28.2	0.23 1.2	66.5	-1.43 -17.3	0.17 0.8	34.7	-1.04 -12.2	0.10 0.2	145.5	-2.01 -24.4	0.11 0.5	
6304	134.2	1.18 18.5	0.58 2.1	185.6	1.15 24.5	1.30 6.7	97.0	1.10 13.3	0.45 2.1	58.1	0.96 11.2	0.65 1.3	174.6	0.39 4.7	0.15 0.7	
6322	128.3	0.81 12.7	1.54 5.5	184.7	1.11 23.5	0.80 4.2	98.0	1.18 14.3	1.55 7.2	49.0	0.19 2.2	1.48 3.0	176.0	0.51 6.1	0.37 1.7	
6336	100.3	-0.98 -15.3	0.90 3.2	144.3	-0.79 -16.8	1.06 5.5	88.3	0.38 4.6	0.62 2.9	36.0	-0.93 -10.8	0.49 1.0	167.0	-0.24 -2.9	1.61 7.5	
6353	119.3	0.23 3.6	0.60 2.1	165.4	0.20 4.2	0.32 1.7	84.2	0.03 0.4	0.61 2.8	55.5	0.74 8.7	1.81 3.7	172.0	0.18 2.2	0.88 4.1	
6388	104.3	-0.73 -11.4	0.39 1.4	145.4	-0.74 -15.7	0.25 1.3	69.4	-1.19 -14.4	0.52 2.4	34.0	-1.10 -12.8	0.88 1.8	150.7	-1.59 -19.2	0.62 2.9	
6718	117.3	0.11 1.7	1.41 5.0	160.3	-0.04 -0.8	1.42 7.4	83.1	-0.06 -0.7	1.14 5.3	49.9	0.26 3.1	0.88 1.8	173.5	0.30 3.6	1.64 7.7	
Grand Median		115.7		161.2			83.7			46.8			169.9			
Median Abs Dev		12.0		16.3			8.9			9.8			4.2			
Avg Within Lab SD		3.6		5.2			4.7			2.0			4.7			
Labs Included		8		8			8			8			8			
Labs Reporting		8		8			8			8			8			

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
Cu (167)															
in the Mehlich-3 Multi-Element Property Groups															
Data units: mg/kg															
6284	1.63	-0.06	0.70	1.07	-0.03	0.68	2.20	0.20	1.23	4.13	0.00	1.66	2.23	-0.03	1.82
		-0.03	0.06		-0.01	0.06		0.07	0.17		0.00	0.15		-0.01	0.15
6289	1.78	0.26	0.55	1.25	0.40	0.12	2.19	0.18	0.22	3.90	-0.65	0.25	2.29	0.15	0.30
		0.12	0.05		0.17	0.01		0.06	0.03		-0.23	0.02		0.05	0.03
6304	3.22	3.35	2.24	2.46	3.25	2.05	2.84	2.15	0.47	4.42	0.80	0.72	3.35	3.50	0.30
		1.56	0.18		1.38	0.17		0.70	0.07		0.28	0.07		1.10	0.03
6322	1.73	0.16	0.70	1.17	0.21	1.36	2.13	0.00	0.41	4.13	0.00	0.63	2.30	0.18	0.00
		0.07	0.06		0.09	0.12		0.00	0.06		0.00	0.06		0.06	0.00
6333	1.52	-0.30	0.21				2.24	0.34	2.50	4.14	0.03	0.56	2.24	0.00	0.48
		-0.14	0.02					0.11	0.35		0.01	0.05		0.00	0.04
6336	1.13	-1.13	0.70	0.87	-0.50	0.68	1.53	-1.83	0.41	3.13	-2.85	0.63	1.63	-1.93	1.37
		-0.53	0.06		-0.21	0.06		-0.60	0.06		-1.00	0.06		-0.61	0.12
6353	1.40	-0.56	0.44	0.84	-0.56	0.96	1.93	-0.62	0.62	4.12	-0.03	1.07	2.24	-0.02	1.73
		-0.26	0.04		-0.24	0.08		-0.20	0.09		-0.01	0.10		-0.01	0.15
6388	1.66	0.00	1.04	0.90	-0.42	0.24	1.93	-0.62	0.19	4.10	-0.09	0.78	2.24	-0.02	0.36
		0.00	0.09		-0.18	0.02		-0.20	0.03		-0.03	0.07		-0.01	0.03
6718	1.78	0.26	0.93	1.09	0.03	0.12	2.09	-0.13	0.44	4.70	1.61	1.67	2.32	0.23	0.50
		0.12	0.08		0.01	0.01		-0.04	0.06		0.57	0.15		0.07	0.04
Grand Median		1.66			1.08			2.13			4.13			2.24	
Median Abs Dev		0.12			0.17			0.11			0.03			0.05	
Avg Within Lab SD		0.08			0.08			0.14			0.09			0.08	
Labs Included		9			8			9			9			9	
Labs Reporting		9			8			9			9			9	

B (168)															
in the Mehlich-3 Multi-Element Property Groups															
Data units: mg/kg															
6284	0.57	0.00	2.54	0.23	-0.43	1.82	1.50	0.89	1.32	6.17	0.24	1.44	1.43	0.63	0.68
		0.00	0.15		-0.14	0.12		0.25	0.17		0.19	0.31		0.16	0.06
6289	0.46	-0.35	0.53	0.14	-0.72	0.00	1.21	-0.12	0.61	5.26	-0.88	0.18	1.19	-0.32	0.14
		-0.11	0.03		-0.23	0.00		-0.03	0.08		-0.71	0.04		-0.08	0.01
6304	0.34	-0.73	0.37	0.20	-0.53	0.60	1.05	-0.68	0.23	4.52	-1.79	1.37	0.95	-1.25	0.33
		-0.22	0.02		-0.17	0.04		-0.19	0.03		-1.45	0.29		-0.32	0.03
6322	1.10	1.73	0.00	1.00	1.94	1.58	1.93	2.42	1.16	6.13	0.20	0.72	1.87	2.29	1.35
		0.53	0.00		0.63	0.10		0.69	0.15		0.16	0.15		0.60	0.12
6333	1.07	1.63	0.88				1.27	0.08	2.19	5.14	-1.03	0.19			
		0.50	0.05					0.02	0.29		-0.84	0.04			
6336	0.67	0.35	0.79	0.57	0.62	0.90	1.20	-0.16	0.00	4.67	-1.61	1.18	1.20	-0.27	0.00
		0.11	0.05		0.20	0.06		-0.05	0.00		-1.31	0.25		-0.07	0.00
6353	0.89	1.05	0.60	0.73	1.11	0.78	0.96	-1.00	0.84	5.97	0.00	1.55	1.23	-0.15	2.03
		0.32	0.04		0.36	0.05		-0.28	0.11		0.00	0.33		-0.04	0.17

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6388	0.56	-0.02	0.33	0.38	0.02	0.47	1.45	0.71	0.04	6.02	0.06	0.66	1.31	0.15	0.73
6718	0.50	-0.01	0.02	0.37	0.01	0.03	1.25	0.20	0.01	6.20	0.05	0.14	1.36	0.04	0.06
		-0.22	0.50		-0.02	0.46		0.00	0.09		0.28	0.47		0.33	0.97
		-0.07	0.03		-0.01	0.03		0.00	0.01		0.23	0.10		0.09	0.08
Grand Median		0.57			0.37			1.25			5.97			1.27	
Median Abs Dev		0.11			0.19			0.19			0.23			0.09	
Avg Within Lab SD		0.06			0.06			0.13			0.21			0.09	
Labs Included		9			8			9			9			8	
Labs Reporting		9			8			9			9			8	

Zn - DTPA (169)			in the Micronutrients Property Groups												Data units: mg/kg		
6276	1.34	0.84	0.38	1.13	0.69	0.49	0.58	0.46	0.78	2.06	0.74	1.63	1.47	0.83	0.79		
6278	1.13	0.19	0.03	1.07	0.17	0.03	0.47	0.10	0.05	2.13	0.28	0.15	1.17	0.28	0.06		
6283	0.98	-0.08	0.87	0.88	0.45	0.92	0.41	-0.04	0.90	1.70	0.92	1.30	1.07	-0.06	0.76		
6289	1.01	-0.02	0.06	0.63	0.11	0.06	0.32	-0.01	0.06	1.36	0.35	0.12	0.96	-0.02	0.06		
6306	1.10	-0.78	0.57	1.14	-0.30	0.32	0.49	-0.30	0.31	1.90	-0.21	1.30	1.50	-0.34	1.07		
6327	1.39	-0.17	0.04	0.84	-0.08	0.02	0.41	-0.07	0.02	1.36	-0.08	0.12	0.96	-0.12	0.08		
6330	1.20	-0.62	0.09	1.13	-1.33	0.33	0.63	-0.71	0.24	1.90	-1.10	0.41	1.50	-0.69	0.20		
6334	1.21	-0.14	0.01	1.00	-0.33	0.02	0.41	-0.16	0.02	1.73	-0.42	0.04	1.19	-0.23	0.02		
6335	1.05	-0.23	1.19	0.94	0.76	1.13	0.42	0.06	0.56	1.79	0.31	1.37	1.19	0.93	1.79		
6336	1.67	-0.05	0.08	0.37	0.19	0.07	0.74	0.01	0.04	0.79	0.12	0.12	0.57	0.32	0.14		
6338	1.13	1.09	0.71	0.97	-0.48	0.18	0.42	-0.29	0.15	1.66	-0.23	0.89	1.06	-0.55	1.64		
6343	0.80	0.24	0.05	0.60	-0.12	0.01	0.20	-0.06	0.01	1.40	-0.09	0.08	0.80	-0.18	0.12		
6353	1.26	0.23	1.50	1.32	0.72	0.92	1.12	0.69	0.90	1.83	0.48	1.72	1.41	1.02	1.52		
6357	1.17	0.05	0.10	0.73	0.18	0.06	0.43	0.16	0.06	2.10	0.19	0.15	1.30	0.35	0.12		
6361	1.23	0.26	0.97	0.99	0.18	1.15	0.56	-0.28	0.39	1.88	-0.14	0.13	1.37	0.00	0.33		
		0.06	0.06		0.05	0.07		-0.06	0.03		-0.06	0.01		0.00	0.03		
		-0.45	0.52		-0.07	1.15		-0.27	0.39		0.03	0.28		0.00	0.70		
		-0.10	0.03		-0.02	0.07		-0.06	0.03		0.01	0.03		0.00	0.05		
		2.33	1.73		-2.37	0.92		1.15	0.65		-2.61	0.53		-1.84	0.79		
		0.52	0.12		-0.59	0.06		0.26	0.04		-1.00	0.05		-0.62	0.06		
		-0.08	1.02		0.07	1.06		-0.27	0.24		-0.32	1.52		-0.38	0.73		
		-0.02	0.07		0.02	0.07		-0.06	0.02		-0.12	0.14		-0.13	0.06		
		-1.58	0.00		-1.43	0.00		-1.23	0.00		-1.00	0.00		-1.15	0.00		
		-0.35	0.00		-0.36	0.00		-0.28	0.00		-0.38	0.00		-0.39	0.00		
		0.48	2.00		1.49	1.36		2.85	0.27		0.12	1.07		0.67	1.32		
		0.11	0.13		0.37	0.09		0.64	0.02		0.05	0.10		0.23	0.10		
		0.08	0.87		-0.89	0.92		-0.19	0.90		0.83	1.13		0.33	1.32		
		0.02	0.06		-0.22	0.06		-0.04	0.06		0.32	0.10		0.11	0.10		
		0.35	0.87		0.14	1.72		0.38	0.32		0.27	1.40		0.53	0.20		
		0.08	0.06		0.04	0.11		0.09	0.02		0.10	0.12		0.18	0.02		

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6381	1.05	-0.45		1.06	0.42		0.54	0.28		2.76	2.56		1.42	0.69	
6382	1.02	-0.10	0.43	0.88	-0.32	0.33	0.39	-0.37	2.01	1.72	-0.17	0.17	0.97	-0.64	0.30
6396	1.23	-0.13	0.03	1.02	-0.08	0.02	0.50	-0.08	0.13	2.52	-0.07	0.02	1.50	-0.22	0.02
6620	0.98	0.38	0.17	1.02	0.25	0.09	0.50	0.12	0.24	2.52	1.94	0.07	1.50	0.92	0.46
6626	0.98	0.08	0.01	0.85	0.06	0.01	0.49	0.03	0.02	1.65	0.74	0.01	0.87	0.31	0.03
6626	1.18	-0.75	0.61	0.85	-0.41	1.39	0.49	0.04	0.09	1.65	-0.34	0.79	0.87	-0.93	0.53
6649	1.52	-0.17	0.04	0.92	-0.10	0.09	0.39	0.01	0.01	1.77	-0.13	0.07	1.39	-0.32	0.04
6649	1.52	0.12	0.09	0.92	-0.14	0.73	0.39	-0.40	0.18	1.77	-0.03	0.63	1.39	0.60	0.35
6664	0.83	0.03	0.01	1.27	-0.04	0.05	1.22	-0.09	0.01	1.94	-0.01	0.06	1.62	0.20	0.03
6664	0.83	1.67	2.12	1.27	1.28	1.77	1.22	3.32	3.54	1.94	0.43	1.26	1.62	1.28	2.19
6664	0.83	0.37	0.14	0.80	0.32	0.11	0.73	0.75	0.23	1.94	0.16	0.11	1.62	0.43	0.17
6664	0.83	-1.43	0.87	0.80	-0.63	1.59	0.73	1.14	0.90	1.77	-0.04	0.65	1.03	-0.46	0.76
6664	0.83	-0.32	0.06	0.80	-0.16	0.10	0.73	0.26	0.06	1.77	-0.02	0.06	1.03	-0.16	0.06
Grand Median		1.15			0.96			0.48			1.78			1.19	
Median Abs Dev		0.10			0.12			0.08			0.13			0.22	
Avg Within Lab SD		0.07			0.06			0.06			0.09			0.08	
Labs Included		22			22			22			22			22	
Labs Reporting		22			22			22			22			22	

Mn - DTPA (170) in the Micronutrients Property Groups															
															Data units: mg/kg
6276	36.5	0.83	0.61	35.1	0.79	0.62	25.3	0.39	0.55	2.03	0.00	0.19	10.82	0.60	1.16
6278	31.0	0.08	0.11	30.0	0.06	0.15	22.5	0.00	0.44	3.97	0.97	0.24	10.77	0.58	0.30
6283	25.3	-0.70	0.16	26.6	-0.40	0.70	15.2	-1.02	0.66	1.10	-0.47	0.06	6.43	-0.73	1.08
6306	38.0	1.03	1.28	38.7	1.29	0.37	33.4	1.53	0.70	2.98	0.47	0.51	14.83	1.81	0.59
6327	30.4	0.00	0.40	28.9	-0.09	0.21	17.0	-0.76	1.20	6.52	2.24	4.40	6.93	-0.58	0.96
6330	30.8	0.06	1.08	31.6	0.30	0.25	25.5	0.42	1.09	3.97	0.97	0.36	11.77	0.89	1.31
6334	37.4	0.4	2.8	37.0	2.1	0.6	20.4	3.0	1.9	3.97	1.93	0.61	11.77	2.93	1.00
6335	35.2	0.95	0.34	37.0	1.05	0.06	20.4	-0.29	0.36	2.25	0.11	0.14	8.47	-0.11	0.48
6336	34.7	7.0	0.9	37.0	7.5	0.1	20.4	-2.1	0.6	2.25	0.21	0.23	8.47	-0.36	0.37
6338	26.9	0.66	0.59	36.3	0.95	0.74	19.8	-0.38	0.66	3.07	0.52	0.15	9.67	0.25	0.92
6338	26.9	4.8	1.5	36.3	6.8	1.8	19.8	-2.7	1.2	3.07	1.03	0.25	9.67	0.83	0.71
6338	26.9	0.58	0.59	38.7	1.29	0.85	29.7	1.01	1.73	1.63	-0.20	0.09	10.40	0.47	0.81
6338	26.9	4.3	1.5	38.7	9.2	2.1	29.7	7.2	3.1	1.63	-0.40	0.15	10.40	1.57	0.62
6338	26.9	-0.48	3.12	29.5	0.00	3.78	6.0	-2.31	1.80	1.15	-0.44	0.16	5.47	-1.02	1.02
6338	26.9	-3.5	8.0	29.5	0.0	9.2	6.0	-16.5	3.2	1.15	-0.89	0.27	5.47	-3.37	0.78

ALP Program - Participant Web Summary Report - Cycle 07



	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6343	50.0	2.66	0.78	48.0	2.60		24.0	0.21		2.00	-0.02		8.00	-0.25	
6353	31.3	0.12	0.30	26.6	-0.41	0.42	28.2	0.80	0.68	7.59	2.78	0.58	15.41	1.99	0.78
6357	24.3	-0.82	1.83	27.3	-0.31	0.63	24.3	0.26	1.99	2.67	0.32	0.68	10.33	0.45	1.99
6361	29.8	-0.08	1.24	26.8	-2.2	1.5	23.8	1.9	3.5	1.67	0.63	1.15	8.83	1.50	1.53
6381	29.9	-0.06	3.2	35.4	-0.39	0.73	24.0	0.19	1.04	5.76	-0.18	0.19	13.38	0.00	1.20
6382	26.6	-0.5		27.6	-2.7	1.8	14.6	1.3	1.8	1.15	-0.37	0.32	5.20	0.00	0.92
6396	39.7	-0.51	0.58	31.2	0.83		24.1	0.21		3.60	1.86		11.00	1.37	
6620	24.1	-0.85	0.47	27.4	5.9		17.3	1.5		1.34	3.73		6.82	4.55	
6626	26.7	-6.3	1.2	27.2	-0.26	0.01	16.5	-1.10	0.19	0.93	-0.44	0.34	8.27	-1.10	0.00
6649	26.9	-3.7	0.4	21.5	-1.9	0.0	17.9	-7.9	0.3	1.21	-0.88	0.58	8.51	-3.63	0.00
6664	19.6	1.26	0.78	21.3	0.23	1.54	16.4	0.23	1.63	1.83	0.78	0.27	7.40	0.65	1.75
		9.3	2.0		1.7	3.8		1.6	2.9		1.57	0.46		2.17	1.35
		-0.85	0.47		-0.30	0.81		-0.72	0.07		-0.34	0.04		-0.61	0.65
		-6.3	1.2		-2.1	2.0		-5.1	0.1		-0.69	0.08		-2.01	0.50
		-0.51	0.16		-0.32	0.13		-0.83	0.38		-0.55	0.03		-0.17	0.94
		-3.7	0.4		-2.3	0.3		-5.9	0.7		-1.11	0.05		-0.57	0.72
		-0.47	0.43		-1.12	0.37		-0.64	1.33		-0.41	0.13		-0.10	1.88
		-3.4	1.1		-8.0	0.9		-4.6	2.4		-0.82	0.22		-0.33	1.44
		-1.46	0.35		-1.16	0.19		-0.85	0.03		-0.10	0.19		-0.43	0.13
		-10.8	0.9		-8.2	0.5		-6.1	0.1		-0.20	0.32		-1.43	0.10
Grand Median		30.4			29.5			22.5			2.03			8.83	
Median Abs Dev		4.3			2.9			4.6			0.89			1.93	
Avg Within Lab SD		2.6			2.4			1.8			1.69			0.77	
Labs Included		21			21			21			21			21	
Labs Reporting		21			21			21			21			21	

Fe - DTPA (171)

in the Micronutrients Property Groups

Data units: mg/kg

6276	24.6	0.38	0.39	20.9	0.48	1.06	9.60	1.06	0.84	1.87	0.17	0.64	51.4	0.42	0.82
6278	14.7	1.8	1.1	13.3	3.2	4.8	4.70	2.39	0.72	1.67	0.20	0.25	24.7	5.3	2.9
6283	20.7	-1.64	0.20	17.7	-0.65	0.13	6.30	-1.14	0.67	1.63	0.00	1.47	39.9	-1.70	0.17
6306	24.6	-8.1	0.6	25.5	-4.3	0.6	9.10	-2.58	0.58	2.88	0.00	0.58	56.9	-21.5	0.6
6327	24.5	-0.41	0.49	16.1	0.00	0.49	7.20	-0.43	0.83	1.18	-0.03	0.82	38.2	-0.49	0.12
6330	19.5	-2.0	1.4	17.7	0.0	2.2	10.10	-0.98	0.71	3.77	-0.03	0.32	47.0	-6.3	0.4
		0.38	0.47		1.16	0.48		0.81	2.65		1.05	3.14		0.85	1.21
		1.9	1.3		7.8	2.2		1.83	2.27		1.21	1.23		10.8	4.2
		0.37	0.55		-0.23	0.05		0.00	1.34		-0.42	0.37		-0.63	1.25
		1.8	1.5		-1.6	0.2		0.00	1.15		-0.48	0.15		-8.0	4.4
		-0.65	0.88		0.00	0.20		1.28	1.22		1.82	1.03		0.06	1.94
		-3.2	2.5		0.0	0.9		2.89	1.05		2.10	0.40		0.8	6.8

ALP Program - Participant Web Summary Report - Cycle 07



	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6334	21.9	-0.17	0.14	17.2	-0.07	0.05	6.60	-0.27	0.37	1.39	-0.24	0.47	35.7	-0.82	0.13
6335	34.1	-0.8	0.4	27.3	-0.5	0.2	9.40	-0.61	0.32	1.70	-0.27	0.19	60.5	-10.4	0.5
6336	28.0	2.32	1.06	24.3	1.43	0.22	7.70	0.97	0.47	1.17	0.03	0.26	47.5	1.13	0.52
6338	18.0	11.4	3.0	20.9	9.6	1.0	3.30	2.19	0.40	1.01	0.03	0.10	43.3	14.3	1.8
6343	14.0	1.07	1.06	10.0	0.99	0.51	4.00	0.19	0.67	2.22	-0.43	0.15	20.7	0.10	1.08
6353	23.8	5.3	3.0	17.2	6.7	2.3	10.70	0.43	0.58	6.08	-0.50	0.06	47.3	1.3	3.8
6357	20.7	-0.96	3.40	13.0	0.49	0.74	7.30	-1.74	1.62	1.67	-0.57	0.32	42.7	-0.23	0.90
6361	23.8	-4.7	9.6	25.3	-1.14	3.3	8.50	-3.92	1.39	1.33	-0.66	0.13	46.7	-2.9	3.1
6381	22.7	-1.77		25.7	-1.14		8.20	-1.44		2.72			46.2	-2.01	0.17
6382	25.5	-8.7		23.8	-7.7		6.90	-3.24		1.19			39.6	-25.5	0.6
6396	22.1	0.23	0.17	13.9	-0.07	0.18	8.10	1.52	0.98	2.60	3.82	1.52	56.5	0.09	0.61
6620	19.0	1.1	0.5	15.3	-0.5	0.8	5.50	3.43	0.84	0.84	4.41	0.59	23.5	1.2	2.1
6626	19.1	-0.42	1.95	25.1	-0.70	0.38	5.90	0.04	1.78	0.69	0.00	1.47	56.1	-0.28	1.58
6649	27.7	-2.1	5.5	12.1	-4.7	1.7	7.10	0.09	1.53	2.22	0.00	0.58	54.6	-3.5	5.5
6664	22.7	0.22	0.66	13.4	1.13	4.25	6.50	0.57	0.29	2.20	-0.29	0.15	36.9	0.04	0.32
		1.1	1.9	13.4	7.6	19.2	6.50	1.29	0.25	2.20	-0.33	0.06	36.9	0.5	1.1
		0.00		13.4	1.20		6.50	0.43		2.20	0.91		36.9	0.00	
		0.0		13.4	8.1		6.50	0.97		2.20	1.05		36.9	0.0	
		0.56	0.00	13.4	0.91	0.01	6.50	-0.14	0.03	2.20	-0.42	0.03	36.9	-0.52	0.01
		2.8	0.0	13.4	6.1	0.0	6.50	-0.32	0.02	2.20	-0.48	0.01	36.9	-6.5	0.0
		-0.13	0.31	13.4	-0.57	0.16	6.50	0.38	0.35	2.20	0.81	0.68	36.9	0.82	1.17
		-0.6	0.9	13.4	-3.8	0.7	6.50	0.86	0.30	2.20	0.93	0.26	36.9	10.3	4.1
		-0.75	1.00	13.4	-0.36	0.41	6.50	-0.78	0.47	2.20	-0.71	0.10	36.9	-1.79	0.52
		-3.7	2.8	13.4	-2.4	1.9	6.50	-1.77	0.40	2.20	-0.83	0.04	36.9	-22.7	1.8
		-0.74	0.06	13.4	1.10	0.16	6.50	-0.61	0.37	2.20	-0.85	0.15	36.9	0.78	0.46
		-3.6	0.2	13.4	7.4	0.7	6.50	-1.38	0.32	2.20	-0.98	0.06	36.9	9.9	1.6
		1.01	0.15	13.4	-0.84	0.18	6.50	-0.05	0.83	2.20	0.48	0.55	36.9	0.66	2.50
		5.0	0.4	13.4	-5.6	0.8	6.50	-0.11	0.71	2.20	0.55	0.22	36.9	8.4	8.7
		0.00	0.09	13.4	-0.63	0.06	6.50	-0.31	0.13	2.20	0.46	0.00	36.9	-0.73	0.36
		0.0	0.3	13.4	-4.2	0.3	6.50	-0.71	0.12	2.20	0.53	0.00	36.9	-9.3	1.3
Grand Median		22.7			17.7			7.24			1.67			46.2	
Median Abs Dev		2.1			4.3			1.29			0.52			8.0	
Avg Within Lab SD		2.8			4.5			0.86			0.39			3.5	
Labs Included		21			21			21			20			21	
Labs Reporting		21			21			21			20			21	

Cu - DTPA (172)

in the Micronutrients Property Groups

Data units: mg/kg

6276	1.13	0.63	0.46	0.39	0.66	0.30	0.98	2.05	1.31	1.14	0.60	1.03	0.74	1.13	1.07
6278	0.93	0.13	0.03	0.40	0.06	0.01	0.67	0.30	0.07	1.17	0.11	0.06	0.57	0.17	0.04
		-0.32	1.00		0.77	0.00		-0.09	1.13		0.75	0.97		0.00	1.41
		-0.07	0.06		0.07	0.00		-0.01	0.06		0.13	0.06		0.00	0.06

ALP Program - Participant Web Summary Report - Cycle 07



	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6283	0.88	-0.58	1.38	0.31	-0.14	1.20	0.64	-0.29	0.79	0.92	-0.62	0.96	0.51	-0.35	0.86
6306	1.03	-0.12	0.08	0.41	-0.01	0.04	0.85	-0.04	0.04	1.06	-0.11	0.06	0.68	-0.05	0.04
6327	0.68	0.16	0.96	0.41	0.87	0.59	0.85	1.15	1.19	1.06	0.17	0.52	0.68	0.72	0.56
6330	1.00	0.03	0.06	0.27	0.08	0.02	0.68	0.17	0.06	1.07	0.03	0.03	0.54	0.11	0.02
6334	1.05	-1.56	1.83	0.27	-0.60	0.51	0.68	0.00	0.86	1.07	0.22	1.08	0.54	-0.21	1.08
6335	1.04	-0.32	0.10	0.57	-0.06	0.02	0.90	0.00	0.04	1.10	0.04	0.06	0.77	-0.03	0.04
6336	1.00	0.00	1.74	0.57	2.51	1.71	0.90	1.49	1.96	1.10	0.37	1.69	0.77	1.30	1.41
6338	1.07	0.00	0.10	0.33	0.24	0.06	0.73	0.22	0.10	0.91	0.07	0.10	0.53	0.20	0.06
6343	0.60	0.22	1.71	0.33	0.00	0.68	0.73	0.32	0.63	0.91	-0.71	0.26	0.53	-0.22	0.37
6353	1.00	0.05	0.10	0.39	0.00	0.02	0.75	0.05	0.03	1.14	-0.13	0.02	0.63	-0.03	0.02
6357	0.90	0.18	1.02	0.39	0.66	0.51	0.75	0.50	0.41	1.14	0.60	0.67	0.63	0.43	0.79
6361	1.08	0.04	0.06	0.50	0.06	0.02	0.75	0.07	0.02	1.14	0.11	0.04	0.63	0.07	0.03
6381	0.63	0.00	0.10	0.50	1.82	2.96	0.65	-0.20	1.70	0.85	-1.01	0.76	0.50	-0.46	1.47
6382	0.95	0.35	0.10	0.35	0.17	0.10	0.64	-0.03	0.09	1.03	-0.18	0.05	0.66	-0.07	0.06
6396	0.99	0.07	0.01	0.35	0.21	0.45	0.64	-0.29	0.30	1.03	0.00	0.26	0.66	0.63	0.37
6620	0.65	-0.93	0.00	0.20	-1.33	0.00	0.40	-0.04	0.02	0.60	0.00	0.02	0.23	0.10	0.02
6626	1.07	-0.40	0.00	0.20	-0.13	0.00	0.40	-1.89	0.00	0.60	-2.43	0.00	0.23	-2.17	1.41
6649	1.08	0.00	0.46	0.34	0.10	0.95	0.90	-0.28	0.00	0.60	-0.43	0.00	0.23	-0.33	0.06
6664	0.40	0.00	0.03	0.34	0.01	0.03	0.90	1.46	1.20	0.99	-0.22	0.35	0.73	1.04	1.39
		-0.48	1.74	0.27	-0.63	1.71	0.77	0.22	0.06	1.03	-0.04	0.02	0.57	0.16	0.06
		0.40	1.06	0.27	-0.06	0.06	0.77	0.59	1.13	1.03	0.00	2.58	0.57	0.00	1.41
		0.08	0.06	0.32	-0.10	0.17	0.89	0.09	0.06	1.03	0.00	0.15	0.57	0.00	0.06
		-1.78	0.98	0.32	-0.01	0.01	0.89	1.40	1.97	1.05	0.07	1.70	0.66	0.59	0.99
		-0.37	0.09	0.42	0.98		0.67	0.21	0.10	1.05	0.01	0.10	0.66	0.09	0.04
		-0.24	0.17	0.42	0.09		0.67	-0.07		1.35	1.77		0.72	1.00	
		-0.05	0.01	0.28	-0.49	0.00	0.64	-0.01		1.35	0.32		0.72	0.15	
		-0.03	0.82	0.28	-0.05	0.00	0.64	-0.27	0.00	1.02	-0.06	0.10	0.52	-0.30	0.00
		-0.01	0.05	0.28	-0.45	0.95	0.85	-0.04	0.00	1.02	-0.01	0.01	0.52	-0.05	0.00
		-1.69	0.52	0.28	-0.04	0.03	0.85	1.15	0.78	1.16	0.71	0.77	0.71	0.93	1.12
		-0.35	0.03	0.24	-0.87	0.62	0.58	0.17	0.04	1.16	0.13	0.05	0.71	0.14	0.05
		0.35	0.27	0.24	-0.08	0.02	0.58	-0.68	0.71	0.68	-1.98	0.74	0.29	-1.80	0.42
		0.07	0.02	0.32	-0.07	1.02	0.67	-0.10	0.04	0.68	-0.35	0.04	0.29	-0.28	0.02
		0.36	1.10	0.32	-0.01	0.03	0.67	-0.09	0.23	0.93	-0.58	0.34	0.60	0.20	0.37
		0.08	0.06	0.38	0.61	0.29	0.67	-0.01	0.01	0.93	-0.10	0.02	0.60	0.03	0.02
		-2.89	0.00	0.30	-0.28	0.00	0.70	-0.06	0.24	0.87	-0.93	0.89	0.56	-0.06	0.33
		-0.60	0.00	0.30	-0.03	0.00	0.70	-0.01	0.01	0.87	-0.17	0.05	0.56	-0.01	0.01
				0.30	-0.28	0.00	0.70	0.14	0.00	0.97	-0.37	0.97	0.47	-0.65	1.41
				0.30	-0.03	0.00	0.70	0.02	0.00	0.97	-0.07	0.06	0.47	-0.10	0.06
Grand Median		1.00			0.33			0.68			1.03			0.57	
Median Abs Dev		0.07			0.06			0.05			0.11			0.09	
Avg Within Lab SD		0.06			0.03			0.05			0.06			0.04	
Labs Included		21			21			21			21			21	
Labs Reporting		21			21			21			21			21	



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SRS0811				SRS0812			SRS0813			SRS0814			SRS0815							
Sample Mean	Z Score	k Score	Difference W/L STD	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				
Zn - HCl (173)				in the Micronutrients Property Groups										Data units: mg/kg						
6304				1.92				2.16				1.23				6.11				2.49
Grand Median				1.92			2.16			1.23			6.11			2.49				
Median Abs Dev													0.09			0.02				
Avg Within Lab SD													0.09			0.02				
Labs Included				1			1			1			1			1				
Labs Reporting				1			1			1			1			1				
Cl - Ca(NO3)2 Extr. (175)				in the Micronutrients Property Groups										Data units: mg/kg						
6306				4.97				6.77				47.3				86.5				2.97
6330				1.28				1.51				14.0				29.1				0.87
6664				3.43				4.23				34.8				69.2				1.63
Grand Median				3.43			4.23			34.8			69.2			1.63				
Median Abs Dev				1.53			2.53			12.5			17.3			0.76				
Avg Within Lab SD													1.6			0.20				
Labs Included				3			3			3			3			3				
Labs Reporting				3			3			3			3			3				
B - Hot Wat. (176)				in the Micronutrients Property Groups										Data units: mg/kg						
6278	0.27	-0.34	0.90	0.14	-0.31	0.20	0.68	-0.07	0.76	2.55	-0.01	0.50	0.38	-0.87	0.62					
6304	0.23	-0.07	0.03	0.14	-0.03	0.01	0.72	-0.02	0.03	3.08	-0.01	0.10	0.65	-0.26	0.04					
6306	0.59	-0.52	0.50	0.14	-0.30	0.91	0.72	0.04	0.52	3.08	0.42	1.04	0.65	0.00	0.34					
6306	0.59	-0.10	0.01	0.32	-0.03	0.03	0.89	0.01	0.02	1.69	0.52	0.20	0.87	0.00	0.02					
6306	0.59	1.25	1.22	0.32	1.90	2.55	0.89	0.50	1.46	1.69	-0.71	0.72	0.87	0.75	1.86					
6327	0.34	0.25	0.04	0.14	0.16	0.07	0.69	0.18	0.06	2.58	-0.88	0.14	0.59	0.23	0.11					
6327	0.34	0.02	2.00	0.14	-0.23	1.46	0.69	-0.04	1.62	2.58	0.01	1.75	0.59	-0.19	1.53					
6334	0.66	0.00	0.06	0.28	-0.02	0.04	1.50	-0.01	0.06	4.22	0.01	0.34	1.16	-0.06	0.09					
6334	0.66	1.58	0.39	0.28	1.35	0.89	1.50	2.18	0.67	4.22	1.35	1.01	1.16	1.70	1.22					
6338	0.47	0.32	0.01	0.22	0.11	0.03	1.13	0.80	0.03	3.25	1.65	0.19	0.69	0.51	0.07					
6338	0.47	0.66	1.48	0.22	0.64	0.54	1.13	1.16	0.96	3.25	0.56	0.71	0.69	0.16	0.54					
6401	0.17	0.13	0.04	0.06	0.05	0.02	0.48	0.42	0.04	1.28	0.69	0.14	0.23	0.05	0.03					
6401	0.17	-0.82	1.56	0.06	-1.22	0.61	0.48	-0.62	0.44	1.28	-1.04	1.87	0.23	-1.37	1.27					
6401	0.17	-0.16	0.05	0.06	-0.10	0.02	0.48	-0.22	0.02	1.28	-1.28	0.36	0.23	-0.41	0.07					

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6407	0.20	-0.68	0.00	0.10	-0.74	0.00	0.67	-0.10	1.46	2.00	-0.46	0.52	0.47	-0.59	1.01
6408	0.20	-0.14	0.00		-0.06	0.00	0.40	-0.04	0.06	1.17	-0.56	0.10		-0.18	0.06
6409	0.50	0.81		0.20	0.44	0.00	1.13	1.18	1.46	3.47	-1.14	0.30	0.80	0.51	0.00
6516	0.48	0.16	0.53	0.16	0.04	0.00	1.15	0.43	0.06	4.11	0.74	0.30	0.85	0.15	0.00
6649	0.33	0.71	0.02	0.19	0.00	0.09	0.64	1.21	0.01	2.09	1.26	0.42	0.47	0.68	0.52
		0.14	0.02		0.00	0.00		0.44	0.00		1.55	0.08		0.21	0.03
		-0.02	0.62		0.29	0.18		-0.17	0.73		-0.39	1.20		-0.59	0.05
		0.00	0.02		0.02	0.01		-0.06	0.03		-0.48	0.23		-0.18	0.00
Grand Median		0.34			0.16			0.70			2.56			0.65	
Median Abs Dev		0.14			0.04			0.20			0.78			0.18	
Avg Within Lab SD		0.03			0.03			0.04			0.19			0.06	
Labs Included		12			11			12			12			11	
Labs Reporting		12			11			12			12			11	

B-DTPA/Sorbitol (177) in the Micronutrients Property Groups															
Data units: mg/kg															
6276	0.22	0.61	0.75	0.10	0.03	0.95	0.94	1.39	1.17	3.23	2.20	0.61	0.47	1.01	1.59
6283	0.18	0.06	0.02	0.10	0.00	0.03	0.57	0.27	0.05	2.55	0.62	0.11	0.32	0.16	0.03
6330	0.08	0.13	0.55	0.01	0.00	0.00	0.63	-0.50	0.74	2.62	-0.21	0.67	0.23	0.05	2.07
6343	0.16	0.01	0.02	0.08	-0.88	0.19	0.52	-0.10	0.03	2.38	-0.06	0.12	0.27	0.01	0.05
6357	0.16	-0.89	0.21	0.08	-0.09	0.01	0.71	-0.20	1.14	2.56	0.04	1.06	0.38	-0.49	0.46
6361	0.40	-0.09	0.01	0.08	-0.20	0.00	0.97	-0.04	0.05	2.70	0.01	0.20	0.60	-0.08	0.01
6382		-0.04	0.00	0.33	-0.02	0.00	0.60	-0.76	0.25	3.07	-0.80	0.08	0.10	-0.24	0.00
6664	0.10	0.00	2.47	0.20	-0.02	0.00	0.77	-0.15	0.01	2.60	-0.23	0.02	0.30	-0.04	0.00
		0.00	0.07		-0.23	1.58		0.20	0.78		-0.17	2.05		0.43	0.99
		2.41	0.00		-0.02	0.05		0.04	0.03		-0.05	0.38		0.07	0.02
		0.24	0.00		2.36	1.89		1.51	1.43		0.32	0.93		1.82	0.00
					0.23	0.06		0.30	0.06		0.09	0.17		0.29	0.00
								-0.35	0.00		1.62	0.82		-1.30	0.00
					1.01	0.00		-0.07	0.00		0.46	0.15		-0.21	0.00
					0.10	0.00		0.49	1.43		-0.04	0.54		-0.05	0.00
								0.10	0.06		-0.01	0.10		-0.01	0.00
Grand Median		0.16			0.10			0.67			2.61			0.31	
Median Abs Dev		0.06			0.02			0.10			0.08			0.07	
Avg Within Lab SD		0.03			0.03			0.04			0.19			0.02	
Labs Included		7			7			8			8			8	
Labs Reporting		7			7			8			8			8	



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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	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 Kjeldahl N (178) in the Soil Organic Matter Property Groups															
Data units: Percent															
6278	0.12	-0.16	0.24	0.078	-0.16	0.11	0.070	0.00	0.23	0.17	-0.18	0.10	0.22	0.09	0.60
		0.00	0.00		-0.003	0.001		0.000	0.002		-0.01	0.00		0.00	0.01
6284	0.12	0.16	0.00	0.080	-0.04	0.00	0.070	0.00	0.00	0.18	0.18	0.00	0.22	0.15	0.00
		0.00	0.00		-0.001	0.000		0.000	0.000		0.01	0.00		0.00	0.00
6330	0.13	0.62	1.22	0.099	1.03	0.95	0.120	1.65	1.99	0.20	1.07	1.34	0.27	2.46	1.14
		0.01	0.01		0.019	0.010		0.049	0.015		0.03	0.02		0.06	0.02
6334	0.15	2.01	0.13	0.113	1.80	0.68	0.120	1.47	1.16	0.21	1.18	0.67	0.20	-0.50	0.36
		0.03	0.00		0.033	0.007		0.044	0.009		0.03	0.01		-0.01	0.00
6357	0.11	-0.79	1.99	0.063	-0.99	2.10	0.060	-0.38	0.79	0.15	-0.81	1.39	0.20	-0.75	1.86
		-0.01	0.02		-0.018	0.022		-0.011	0.006		-0.02	0.02		-0.02	0.02
6407	0.12	-0.31	0.69	0.081	0.04	0.45	0.060	-0.55	0.20	0.15	-0.63	1.34	0.21	-0.09	0.86
		0.00	0.01		0.001	0.005		-0.016	0.002		-0.02	0.02		0.00	0.01
Grand Median		0.12			0.081			0.074			0.17			0.22	
Median Abs Dev		0.01			0.010			0.014			0.02			0.01	
Avg Within Lab SD		0.01			0.011			0.008			0.01			0.01	
Labs Included		6			6			6			6			6	
Labs Reporting		6			6			6			6			6	

Soil TN (combustion) (179) in the Soil Organic Matter Property Groups															
Data units: Percent															
6276	0.12	0.41	1.92	0.066	-0.28	1.46	0.060	-0.23	0.71	0.17	0.21	1.99	0.22	0.40	1.01
		0.01	0.01		-0.006	0.007		-0.007	0.005		0.01	0.02		0.01	0.02
6283	0.11	-0.14	1.00	0.087	0.67	0.65	0.080	0.38	0.55	0.14	-0.97	0.38	0.20	-0.82	1.92
		0.00	0.01		0.015	0.003		0.011	0.004		-0.03	0.00		-0.01	0.03
6306	0.11	0.00	0.30	0.072	0.00	0.32	0.070	0.00	0.08	0.16	0.00	0.19	0.21	0.00	0.12
		0.00	0.00		0.000	0.002		0.000	0.001		0.00	0.00		0.00	0.00
6334	0.15	2.04	0.15	0.114	1.86	1.46	0.120	2.01	2.03	0.21	1.82	0.89	0.24	2.03	0.34
		0.04	0.00		0.042	0.007		0.058	0.015		0.05	0.01		0.03	0.01
6664	0.10	-0.78	0.46	0.060	-0.56	0.44	0.050	-0.75	0.27	0.15	-0.38	0.25	0.21	-0.12	0.40
		-0.02	0.00		-0.013	0.002		-0.022	0.002		-0.01	0.00		0.00	0.01
Grand Median		0.11			0.072			0.067			0.16			0.21	
Median Abs Dev		0.01			0.013			0.011			0.01			0.01	
Avg Within Lab SD		0.01			0.005			0.007			0.01			0.02	
Labs Included		5			5			5			5			5	
Labs Reporting		5			5			5			5			5	

Soil TOC (Combustion) (180) in the Soil Organic Matter Property Groups															
Data units: Percent															



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SRS0811			SRS0812			SRS0813			SRS0814			SRS0815			
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
6276	1.20		0.83			0.73			1.79			2.68			
Grand Median	1.20		0.83			0.73			1.79			2.68			
Median Abs Dev															
Avg Within Lab SD									0.06			0.08			
Labs Included	1		1			1			1			1			
Labs Reporting	1		1			1			1			1			

SOM - Walkley-Black (181)			in the Soil Organic Matter Property Groups									Data units: Percent			
6278	1.91	0.35	0.45	1.29	0.07	0.29	1.01	0.04	0.38	2.43	0.22	1.03	3.62	0.39	0.53
		0.11	0.05		0.02	0.03		0.01	0.07		0.08	0.12		0.20	0.09
6283	1.78	-0.05	1.15	1.09	-0.62	0.94	0.89	-0.47	0.58	2.61	0.73	1.67	3.41	0.00	0.54
		-0.02	0.14		-0.18	0.09		-0.11	0.11		0.25	0.20		0.00	0.09
6284	2.20	1.26	2.24	1.67	1.33	2.28	1.33	1.46	2.69	2.60	0.70	0.83	3.60	0.36	2.10
		0.40	0.26		0.40	0.21		0.33	0.49		0.24	0.10		0.19	0.36
6289	1.70	-0.32	0.85	1.30	0.10	1.10	1.07	0.29	0.32	2.23	-0.35	1.72	2.80	-1.19	1.01
		-0.10	0.10		0.03	0.10		0.07	0.06		-0.12	0.21		-0.61	0.17
6327	1.72	-0.24	0.27	1.17	-0.32	0.33	0.78	-0.95	0.32	2.34	-0.05	1.14	3.31	-0.21	0.70
		-0.08	0.03		-0.10	0.03		-0.22	0.06		-0.02	0.14		-0.11	0.12
6330	1.58	-0.70	0.31	1.07	-0.67	0.58	0.88	-0.54	0.06	2.20	-0.46	0.34	3.07	-0.66	0.70
		-0.22	0.04		-0.20	0.05		-0.12	0.01		-0.16	0.04		-0.34	0.12
6343	1.80	0.00	0.08	1.27	0.00	0.11	1.00	0.00		2.36	0.00	0.17	3.57	0.30	0.06
		0.00	0.01		0.00	0.01		0.00			0.00	0.02		0.16	0.01
6357	2.37	1.81	1.81	1.79	1.73	1.61	1.21	0.91	1.38	3.04	1.97	1.32	4.67	2.43	1.85
		0.57	0.21		0.52	0.15		0.21	0.25		0.68	0.16		1.25	0.32
6382	1.82	0.05	0.10	1.17	-0.34	0.39	0.67	-1.43	0.97	2.17	-0.55	0.31	3.18	-0.46	0.44
		0.02	0.01		-0.10	0.04		-0.33	0.18		-0.19	0.04		-0.24	0.08
6401	2.50	2.21		1.80	1.78	0.00	1.17	0.73	0.32	3.13	2.23	0.48	4.13	1.39	0.67
		0.70			0.53	0.00		0.17	0.06		0.78	0.06		0.72	0.12
6407	1.67	-0.42	0.49	1.13	-0.46	0.63	0.87	-0.59	0.32	2.30	-0.16	0.00	3.40	-0.03	0.00
		-0.13	0.06		-0.14	0.06		-0.13	0.06		-0.06	0.00		-0.01	0.00
Grand Median	1.80			1.27			1.00			2.36			3.41		
Median Abs Dev	0.11			0.14			0.13			0.16			0.20		
Avg Within Lab SD	0.12			0.09			0.18			0.12			0.17		
Labs Included	11			11			11			11			11		
Labs Reporting	11			11			11			11			11		

SOM - LOI (% Wt loss) (182)			in the Soil Organic Matter Property Groups									Data units: Percent		
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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6304	1.73	-1.15	0.12	0.62	-2.72	0.23	0.60	-2.17	2.27	2.39	-1.43	1.44	2.48	-2.06	2.03
6306	2.44	-0.76	0.03	1.35	-0.78	0.02	1.34	-0.90	0.30	3.20	-1.20	0.41	3.94	-1.68	0.41
6327	2.89	-0.07	0.51	1.64	-0.19	0.85	1.76	-0.39	0.37	3.88	-0.46	0.28	4.56	-0.26	0.56
6330	2.33	0.61	1.32	1.40	-0.06	0.08	1.40	-0.16	0.05	3.00	-0.39	0.08	3.00	-0.22	0.11
6333	2.79	0.40	0.29	1.57	0.82	1.80	1.53	0.63	2.00	3.77	0.34	1.37	4.22	0.49	1.51
6334	2.97	-0.24	0.53	1.81	-0.01	1.14	1.53	0.26	0.27	3.71	0.29	0.39	4.32	0.40	0.30
6336	2.30	-0.16	0.12	1.37	0.00	0.10	1.57	-0.23	0.76	3.50	-0.70	0.35	4.43	-1.42	0.87
6338	2.63	0.46	0.27	1.32	0.60	0.37	1.42	0.08	0.72	3.68	0.22	0.49	4.32	0.07	0.27
6353	3.15	0.30	0.06	1.74	0.17	0.03	1.70	0.03	0.10	3.97	0.18	0.14	4.77	0.06	0.05
6357	2.15	0.72	0.18	1.27	1.41	0.37	1.31	0.07	0.49	3.09	0.15	0.18	3.19	0.19	0.21
6361	2.90	0.48	0.04	1.53	0.41	0.03	1.53	0.03	0.07	3.83	0.12	0.05	4.47	0.16	0.04
6383	2.37	-0.29	0.92	1.43	-0.12	0.66	1.47	0.17	0.44	3.36	-0.11	0.70	4.13	0.33	0.29
6388	2.28	-0.19	0.20	1.40	-0.04	0.06	1.03	0.07	0.06	2.83	-0.09	0.20	3.72	0.27	0.06
6396	2.17	0.20	0.26	1.30	-0.28	0.41	1.30	-0.19	1.18	3.13	0.11	0.65	3.43	0.20	0.66
6401	3.73	0.14	0.06	1.90	-0.08	0.04	2.30	-0.08	0.16	5.03	0.09	0.19	5.30	0.16	0.13
6408	4.67	0.99	0.63	2.00	1.16	1.31	3.00	0.49	0.47	6.67	0.46	0.21	6.00	0.75	0.51
6626	2.83	-0.52	1.12	1.50	-0.47	1.00	1.60	-0.45	0.59	4.14	-0.60	1.43	4.19	-1.18	0.55
6649	2.00	-0.34	0.24	1.37	-0.14	0.09	1.57	-0.19	0.08	4.01	-0.50	0.41	3.85	-0.97	0.11
6664	2.54	0.62	1.66	1.39	0.46	2.63	1.32	0.09	1.15	3.42	0.29	1.65	3.93	0.37	2.94
6718	2.42	0.41	0.36	1.27	0.13	0.23	1.32	0.04	0.15	3.47	0.25	0.47	3.86	0.31	0.59
		-0.18	0.37	1.43	0.11	1.66		-0.07	1.47		-0.27	1.10		-0.03	0.73
		-0.12	0.08	1.43	0.03	0.15		-0.03	0.20		-0.23	0.31		-0.03	0.15
		-0.32	0.85	1.40	0.01	0.46		-1.13	0.33		-0.90	0.36		-0.54	0.23
		-0.21	0.19	1.40	0.00	0.04		-0.47	0.04		-0.76	0.10		-0.44	0.05
		-0.49	0.53	1.30	-0.35	0.00		-0.48	0.00		-0.54	0.20		-0.89	0.77
		-0.33	0.12	1.30	-0.10	0.00		-0.20	0.00		-0.46	0.06		-0.73	0.15
		1.88	0.27	1.90	1.73	0.00		1.94	0.00		1.73	0.20		1.39	0.00
		1.24	0.06	1.90	0.50	0.00		0.80	0.00		1.45	0.06		1.14	0.00
		3.30	2.66	2.00	2.08			3.64			3.68	2.02		2.25	
		2.18	0.58	2.00	0.60			1.50			3.08	0.58		1.84	
		0.52	0.07	1.50	0.35	0.13		0.25	0.20		0.66	0.18		0.03	0.15
		0.34	0.02	1.50	0.10	0.01		0.10	0.03		0.55	0.05		0.03	0.03
		-0.75	1.98	1.37	-0.11	0.96		0.19	1.86		0.50	2.06		-0.38	1.17
		-0.50	0.43	1.37	-0.03	0.08		0.08	0.25		0.42	0.59		-0.31	0.23
		0.07	0.08	1.39	-0.05	0.46		-0.43	0.27		-0.21	0.11		-0.28	0.18
		0.05	0.02	1.39	-0.02	0.04		-0.18	0.04		-0.17	0.03		-0.23	0.04
		-0.10	0.24	1.27	-0.46	0.30		-0.42	0.19		-0.14	0.26		-0.37	0.31
		-0.07	0.05	1.27	-0.13	0.03		-0.17	0.03		-0.12	0.08		-0.30	0.06

ALP Program - Participant Web Summary Report - Cycle 07



	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	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	2.49			1.40			1.50			3.59			4.16		
Median Abs Dev	0.33			0.12			0.17			0.39			0.31		
Avg Within Lab SD	0.22			0.09			0.13			0.29			0.20		
Labs Included	20			20			20			20			20		
Labs Reporting	20			20			20			20			20		

CaCO3 Content (183)

Data units: Percent

6278							1.17	0.00	1.79						
								0.00	0.25						
6327	0.32	-1.48	0.50	0.21	-0.81	1.89	0.98	-0.26	0.53	3.30	0.96	2.32	3.74	1.63	1.97
		-0.44	0.03		-0.19	0.05		-0.19	0.08		1.09	0.28		2.36	0.26
6330	0.30	-1.56	0.70	0.11	-1.24	0.95	0.52	-0.89	0.29	0.69	-1.34	0.32	0.79	-0.41	0.76
		-0.47	0.04		-0.29	0.03		-0.64	0.04		-1.53	0.04		-0.60	0.10
6334	0.77	0.00	1.29	0.51	0.47	0.72	2.41	1.72	1.60	2.12	-0.08	0.13	0.50	-0.61	0.19
		0.00	0.07		0.11	0.02		1.24	0.23		-0.09	0.02		-0.89	0.03
6361							0.93	-0.32	0.82	0.53	-1.48	0.49	0.87	-0.36	1.15
								-0.23	0.12		-1.68	0.06		-0.52	0.15
6401	0.87	0.33	1.14	0.40	0.00	0.00	1.70	0.74	0.00	2.30	0.08	0.00	2.37	0.68	0.44
		0.10	0.06		0.00	0.00		0.53	0.00		0.09	0.00		0.98	0.06
6407	0.77	0.00	1.14	0.60	0.85		1.73	0.78	0.41	2.33	0.11	0.49	1.90	0.36	0.00
		0.00	0.06		0.20			0.57	0.06		0.12	0.06		0.52	0.00
Grand Median	0.77			0.40			1.17			2.21			1.38		
Median Abs Dev	0.10			0.19			0.53			0.61			0.74		
Avg Within Lab SD	0.05			0.03			0.14			0.12			0.13		
Labs Included	5			5			7			6			6		
Labs Reporting	5			5			7			6			6		

CEC - Cation Displacement (184)

Data units: cmol/kg

6278	18.7	0.14	0.25	5.97	-0.20	0.14	11.0	-0.43	0.16	26.8	-0.16	0.18	19.4	-0.13	0.33
		0.6	0.1		-0.55	0.06		-2.2	0.1		-1.1	0.1		-0.8	0.2
6284	23.0	1.15		11.40	1.76	0.00	15.6	0.47	0.00	28.9	0.16	0.00	25.6	0.90	0.00
		4.9			4.88	0.00		2.4	0.0		1.1	0.0		5.4	0.0
6330	18.6	0.11	0.37	6.33	-0.07	0.28	11.3	-0.37	0.16	26.3	-0.23	1.27	15.7	-0.76	1.67
		0.5	0.2		-0.18	0.12		-1.9	0.1		-1.5	0.8		-4.5	1.1
6334	13.0	-1.21	0.21	4.67	-0.67	0.14	8.3	-0.98	0.31	16.3	-1.74	0.54	15.1	-0.86	0.24
		-5.1	0.1		-1.85	0.06		-4.9	0.1		-11.5	0.4		-5.2	0.2
6357	16.7	-0.34	2.00	6.52	0.00	2.57	11.4	-0.36	1.87	22.0	-0.88	1.88	17.1	-0.52	1.82
		-1.4	0.9		0.00	1.07		-1.8	0.7		-5.8	1.2		-3.1	1.1

ALP Program - Participant Web Summary Report - Cycle 07



	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6361	17.3	-0.20	1.07	6.90	0.14	0.48	19.7	1.28	1.72	30.6	0.41	1.25	21.0	0.13	0.84
6401	27.1	-0.9	0.5	11.80	0.38	0.20	19.0	6.5	0.6	36.7	2.7	0.8	29.6	0.8	0.5
6409	17.7	2.13	1.05		1.90	0.24		1.15	1.18		1.34	0.98		1.57	0.40
		9.0	0.5		5.28	0.10		5.8	0.4		8.8	0.6		9.4	0.3
		-0.11	1.23				15.0	0.36		31.0	0.48		23.3	0.52	0.92
		-0.5	0.6					1.8			3.2			3.1	0.6
Grand Median		18.1			6.52			13.2			27.8			20.2	
Median Abs Dev		1.1			0.55			2.3			3.0			3.8	
Avg Within Lab SD		0.5			0.42			0.4			0.7			0.6	
Labs Included		8			7			8			8			8	
Labs Reporting		8			7			8			8			8	

CEC - Estimation (185)

Data units: cmol/kg

6284	22.7	1.99	0.55	8.87	1.74	1.16	29.1	1.54	0.37	40.0	0.23	0.31	27.5	0.97	1.36
6327	16.2	6.2	0.4	6.42	2.66	0.21	19.2	8.0	0.3	43.1	1.2	1.5	22.3	3.5	1.0
6382	16.7	-0.08	1.72	6.00	0.14	1.60	23.0	-0.36	0.72	37.7	0.82	1.97	25.7	-0.47	1.22
6626	14.7	-0.2	1.2	5.17	0.21	0.29	18.9	-1.9	0.7	31.5	4.2	9.3	21.1	-1.7	0.9
		0.08	0.84		-0.14			0.36	1.83		-0.23	0.12		0.47	0.80
		0.2	0.6		-0.21			1.9	1.7		-1.2	0.6		1.7	0.6
		-0.55	0.15		-0.68	0.32		-0.43	0.11		-1.42	0.02		-0.79	0.14
		-1.7	0.1		-1.04	0.06		-2.2	0.1		-7.4	0.1		-2.9	0.1
Grand Median		16.4			6.21			21.1			38.9			24.0	
Median Abs Dev		1.0			0.63			2.1			2.7			2.3	
Avg Within Lab SD		0.7			0.18			0.9			4.7			0.7	
Labs Included		4			4			4			4			4	
Labs Reporting		4			4			4			4			4	

Soil Density (Scoop) (186)

Data units: g/cc

6327	1,159.3			1,383.1			1,408.9			1,063.3			1,150.1		
Grand Median	1,159.3			1,383.1			1,408.9			1,063.3			1,150.1		
Median Abs Dev															
Avg Within Lab SD											5.5			1.6	
Labs Included	1			1			1			1			1		
Labs Reporting	1			1			1			1			1		

ALP Program - Participant Web Summary Report - Cycle 07



SRS0811

Sample Mean Z Score k Score
Difference W/L STD

SRS0812

Sample Mean Z Score k Score
Difference W/L STD

SRS0813

Sample Mean Z Score k Score
Difference W/L STD

SRS0814

Sample Mean Z Score k Score
Difference W/L STD

SRS0815

Sample Mean Z Score k Score
Difference W/L STD

Sand 2000 - 50 um (187)

in the Particle Size Analysis Property Groups

Data units: Percent

6276	32.5	0.15		64.2	0.00	1.40	70.0	-0.23		41.3	-0.36	2.25	56.7	0.13	1.27
		0.8			0.0	1.4		-0.7			-2.5	2.2		0.6	1.4
6284	30.0	-0.35		66.0	0.53		70.0	-0.23		46.0	0.31		60.0	0.90	
		-1.8			1.9			-0.7			2.2			3.9	
6306	36.0	0.86	0.88	64.3	0.05	0.56	71.3	0.23	1.65	42.7	-0.16	1.20	55.3	-0.18	0.51
		4.3	1.0		0.2	0.6		0.7	1.5		-1.1	1.2		-0.8	0.6
6327	34.9	0.63	0.41	66.8	0.76	0.51	73.5	0.96	1.62	44.2	0.06	1.01	56.2	0.03	0.85
		3.1	0.5		2.7	0.5		2.8	1.5		0.5	1.0		0.1	1.0
6388	42.3	2.14	2.68	64.1	0.00	2.38	73.9	1.09	1.75	51.7	1.12	1.04	62.3	1.42	1.66
		10.6	3.0		0.0	2.4		3.2	1.6		8.0	1.0		6.2	1.9
6401	33.0	0.25	0.88	65.0	0.24	1.68	70.3	-0.11	0.62	43.3	-0.06	1.20	57.0	0.20	1.52
		1.3	1.0		0.9	1.7		-0.3	0.6		-0.5	1.2		0.9	1.7
6407	38.0	1.26		66.0	0.53		71.7	0.34	0.62	50.0	0.88		56.7	0.13	1.02
		6.3			1.9			1.0	0.6		6.2			0.6	1.2
6409	30.0	-0.35		63.0	-0.33		69.3	-0.45	0.62	37.0	-0.96	1.04	52.3	-0.87	1.34
		-1.8			-1.2			-1.3	0.6		-6.8	1.0		-3.8	1.5
6516	27.7	-0.83	0.51	57.0	-2.05		65.0	-1.93		27.0	-2.36		52.0	-0.95	
		-4.1	0.6		-7.2			-5.7			-16.8			-4.1	
6626	27.3	-0.89	0.74	58.7	-1.58	0.81	63.9	-2.29	0.66	47.1	0.46	0.73	47.7	-1.93	0.67
		-4.4	0.8		-5.5	0.8		-6.7	0.6		3.3	0.7		-8.4	0.8
6649	30.7	-0.22	0.51	60.3	-1.10	0.56	71.0	0.11		41.3	-0.35	0.60	50.3	-1.33	1.02
		-1.1	0.6		-3.8	0.6		0.3			-2.5	0.6		-5.8	1.2
6664	31.0	-0.15		61.0	-0.91		71.0	0.11		51.0	1.02		56.0	-0.03	
		-0.8			-3.2			0.3			7.2			-0.1	
Grand Median		31.8			64.2			70.7			43.8			56.1	
Median Abs Dev		2.4			1.9			0.8			2.9			2.3	
Avg Within Lab SD		1.1			1.0			0.9			1.0			1.1	
Labs Included		12			12			12			12			12	
Labs Reporting		12			12			12			12			12	

Silt 50 - 2 um (188)

in the Particle Size Analysis Property Groups

Data units: Percent

6276	43.3	0.52	2.74	27.9	-0.02	1.81	14.6	0.79	0.68	27.9	-0.30	0.45	27.9	0.06	1.07
		1.8	1.9		0.0	1.9		2.4	0.7		-2.6	0.7		0.3	1.4
6284	40.0	-0.42		28.0	0.02		12.0	-0.08		28.0	-0.29		26.0	-0.36	
		-1.5			0.0			-0.2			-2.5			-1.6	
6306	40.7	-0.23	0.83	26.3	-0.74	1.45	12.3	0.03	1.44	48.3	2.06	2.36	27.3	-0.06	1.14
		-0.8	0.6		-1.6	1.5		0.1	1.5		17.8	3.8		-0.3	1.5
6327	39.5	-0.56	0.41	22.6	-2.44	1.12	8.7	-1.20	1.62	24.4	-0.71	0.28	23.8	-0.86	0.67
		-2.0	0.3		-5.3	1.2		-3.6	1.7		-6.1	0.4		-3.9	0.9

ALP Program - Participant Web Summary Report - Cycle 07



	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6388	37.9	-1.02	0.33	26.7	-0.56	1.42	12.1	-0.03	2.08	19.7	-1.25	1.12	23.1	-1.01	2.15
6401	43.3	0.52	0.83	27.0	-0.44	1.64	13.7	0.48	0.54	26.0	-0.52	0.62	26.7	-0.21	1.14
6407	38.0	1.8	0.6	26.0	-1.0	1.7	15.7	1.4	0.6	29.3	-4.5	1.0	30.3	-1.0	1.5
6409	44.3	-0.99	0.83	29.3	-0.89	0.55	14.0	1.16	0.94	33.7	-0.14	0.72	30.7	0.60	0.86
6516	40.0	0.80	0.6	28.0	-2.0	0.6	11.0	3.4	1.0	40.0	-1.2	1.2	26.3	2.7	1.5
6626	47.5	-0.42	1.20	31.0	0.02	0.57	18.2	1.10	0.86	33.5	0.35	0.47	36.5	-0.29	0.48
6649	42.3	1.68	0.8	30.0	1.39	0.6	10.7	-1.2	0.9	31.7	9.5	0.8	31.3	8.8	0.6
6664	44.0	0.23	0.83	28.0	0.93	0.6	10.0	-0.53	0.54	38.0	0.14	0.36	33.0	0.82	0.43
		0.8	0.6		2.0			-1.6	0.6		1.2	0.6		3.7	0.6
		0.70			0.02			-0.75			0.87			1.19	
		2.5			0.0			-2.2			7.5			5.4	
Grand Median		41.5			28.0			12.2			30.5			27.6	
Median Abs Dev		1.9			1.3			1.7			3.8			2.9	
Avg Within Lab SD		0.7			1.1			1.1			1.6			1.3	
Labs Included		12			12			12			12			12	
Labs Reporting		12			12			12			12			12	

Clay 2 - 0 um (189)

in the Particle Size Analysis Property Groups

Data units: Percent

6276	24.2	-0.29	1.83	7.92	-0.58	0.63	15.4	-0.65	1.19	30.8	0.35	0.97	15.4	-0.19	1.43
6284	30.0	-0.9	1.9	6.00	-1.32	0.72	18.0	-1.8	0.7	26.0	3.0	1.4	14.0	-0.7	1.4
6306	23.3	1.54	0.55	9.33	-1.41	1.01	16.3	0.26	0.95	9.0	-0.21	1.79	17.3	-0.62	1.15
6327	25.6	4.9	0.6	10.58	-3.23	1.15	17.8	0.7	0.6	31.4	-1.8	2.6	20.0	-2.1	1.2
6388	19.8	-0.55	0.32	9.13	0.04	0.58	14.0	-0.32	0.53	28.6	-18.8	0.76	14.7	1.3	0.26
6401	23.7	0.16	0.3	8.00	0.59	0.66	16.0	0.21	0.3	30.7	0.41	1.1	16.3	1.18	0.3
6407	24.0	0.5	2.71	8.00	1.35	2.89	12.7	0.6	1.75	20.7	3.6	1.49	13.0	3.9	0.3
6409	25.7	-1.66	0.55	8.33	-0.04	3.30	16.7	-1.15	1.1	29.3	0.09	2.2	17.3	-0.42	2.00
6516	32.3	-0.45	0.6	15.00	-0.54	1.15	23.0	-0.44	0.6	33.0	0.8	0.39	21.7	-1.4	2.0
		-1.4			-1.23			-1.3	1.90		0.33	0.6		0.08	0.57
		-0.34			-0.54			-1.62	1.2		2.9	2.06		0.3	0.6
		-1.1			-1.23			-4.6	3.1		-0.82	1.0		-0.92	0.99
		0.18	0.55		-0.39	1.01		-0.21	0.95		-7.1	0.78		-3.1	1.0
		0.6	0.6		-0.90	1.15		-0.6	0.6		0.18	1.2		0.38	1.15
		2.27	0.55		2.52			2.03			1.5			1.3	1.2
		7.2	0.6		5.77			5.7			0.59			1.67	1.15
											5.2			5.6	1.2

ALP Program - Participant Web Summary Report - Cycle 07



	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6626	25.2	0.03 0.1	0.00 0.0	10.33	0.48 1.10	0.79 0.90	17.9	0.22 0.6	0.95 0.6	19.4	-0.96 -8.4	0.23 0.3	15.8	-0.08 -0.3	0.53 0.5
6649	27.0	0.60 1.9		9.67	0.19 0.43	0.51 0.58	18.3	0.38 1.1	0.95 0.6	27.0	-0.09 -0.8		18.3	0.68 2.3	0.57 0.6
6664	25.0	-0.03 -0.1		11.00	0.77 1.77		19.0	0.62 1.7		11.0	-1.92 -16.8		11.0	-1.51 -5.1	
Grand Median		25.1			9.23			17.3			27.8			16.1	
Median Abs Dev		1.3			1.23			1.2			3.3			1.7	
Avg Within Lab SD		1.0			1.14			0.6			1.5			1.0	
Labs Included		12			12			12			12			12	
Labs Reporting		12			12			12			12			12	

ALP Program - Participant Web Summary Report - Cycle 07



SRB0807

Sample Mean Z Score k Score
Difference W/L STD

SRB0808

Sample Mean Z Score k Score
Difference W/L STD

SRB0809

Sample Mean Z Score k Score
Difference W/L STD

Botanicals Properties

Dry Matter (%) (201)

Data units: Percent

6276	93.5	0.29	0.28	93.2	0.49	0.75	89.5	0.07	0.29
		0.1	0.1		0.4	0.1		0.1	0.1
6278	93.4	-0.07	0.45	92.6	-0.25	1.09	89.4	-0.07	0.49
		0.0	0.1		-0.2	0.2		-0.1	0.2
6304	93.4	0.07	0.49	93.2	0.49	0.95	89.8	0.34	0.86
		0.0	0.1		0.4	0.1		0.4	0.3
6334	92.6	-1.70	1.04	92.5	-0.33	1.27	88.3	-1.11	1.75
		-0.7	0.2		-0.3	0.2		-1.2	0.6
6335	93.5	0.36	0.26	93.0	0.25	1.10	90.3	0.79	0.33
		0.2	0.1		0.2	0.2		0.9	0.1
6406	92.7	-1.57	2.08	90.9	-2.23	0.72	87.6	-1.68	1.33
		-0.7	0.5		-1.9	0.1		-1.8	0.5
Grand Median		93.4			92.8			89.5	
Median Abs Dev		0.1			0.3			0.6	
Avg Within Lab SD		0.2			0.1			0.3	
Labs Included		6			6			6	
Labs Reporting		6			6			6	

NO3 - N Cd Rd. (202)

Data units: mg/kg

6276	44.5	0.22	0.07	4,463.7	0.94	1.95	1,065.9	1.15	0.85
		4.4	0.9		381.2	308.8		108.2	33.3
6283	42.3	0.11	0.99	4,041.7	-0.10	0.26	953.3	-0.05	1.47
		2.2	14.2		-40.8	41.8		-4.3	57.5
6304	39.6	-0.03	0.03	3,990.6	-0.23	0.29	916.9	-0.43	0.33
		-0.5	0.4		-91.9	46.3		-40.8	12.9
6330	40.7	0.03	0.35	3,913.7	-0.42	1.34	876.3	-0.86	0.21
		0.5	5.0		-168.8	213.2		-81.3	8.0
6334	87.0	2.31	2.54	4,684.7	1.48	0.90	962.0	0.05	1.95
		46.9	36.3		602.2	142.0		4.3	76.2
6335	16.7	-1.15	0.15	4,750.7	1.65	0.30	1,081.3	1.31	0.33
		-23.5	2.1		668.2	47.0		123.7	12.9
6343	23.3	-0.83	0.04	4,123.3	0.10	0.02	855.0	-1.09	0.03
		-16.8	0.6		40.8	2.9		-102.7	1.0
6620	25.2	-0.73	0.62	3,886.3	-0.48	1.17	1,000.3	0.45	1.01
		-14.9	8.9		-196.2	185.2		42.7	39.5



ALP Program - Participant Web Summary Report - Cycle 07

	SRB0807			SRB0808			SRB0809		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
Grand Median	40.1			4,082.5			957.7		
Median Abs Dev	9.7			182.5			62.0		
Avg Within Lab SD	14.3			158.7			39.0		
Labs Included	8			8			8		
Labs Reporting	8			8			8		

NO3 - N ISE (203)										Data units: mg/kg
6278	40.0			4,150.0			1,016.7			
6626	442.0			4,963.3			1,470.0			
Grand Median	241.0			4,556.7			1,243.3			
Median Abs Dev	201.0			406.7			226.7			
Avg Within Lab SD										
Labs Included	2			2			2			
Labs Reporting	2			2			2			

NO3 - N Oth. (204)										Data units: mg/kg
6291	244.7			3,688.0			1,141.7			
6406	65.3			3,730.7			933.7			
Grand Median	155.0			3,709.3			1,037.7			
Median Abs Dev	89.7			21.3			104.0			
Avg Within Lab SD										
Labs Included	2			2			2			
Labs Reporting	2			2			2			

PO4 - P (206)										Data units: mg/kg
6278	975.0	0.46	0.34	9,506.7	0.46	0.32	3,093.3	0.68	0.26	
		62.3	21.8		740.3	194.0		270.0	46.5	
6283	880.3	-0.24	0.22	8,766.3	0.00	0.22	2,684.7	-0.35	0.22	
		-32.3	14.2		0.0	129.6		-138.7	40.5	
		0.00	0.97		-0.14	0.39		0.04	1.42	
6291	912.7	0.0	62.5	8,543.0	-223.3	235.1	2,837.7	14.3	257.6	

ALP Program - Participant Web Summary Report - Cycle 07



	SRB0807			SRB0808			SRB0809		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6330	882.3	-0.22	0.39	8,723.3	-0.03	0.32	2,792.3	-0.08	0.51
6334	1,360.3	-30.3	25.0	11,366.7	-43.0	191.4	4,232.7	-31.0	93.2
6620	911.3	3.31	2.38	10,686.7	1.61	2.57	2,807.3	3.54	2.06
6626	976.7	447.7	153.0	6,690.0	2,600.3	1,542.8	2,823.3	1,409.3	374.0
		-0.01	0.19		1.19	0.10		-0.04	0.60
		-1.3	12.4		1,920.3	58.6		-16.0	109.9
		0.47	0.09		-1.29	0.02		0.00	0.11
		64.0	5.8		-2,076.3	10.0		0.0	20.8
Grand Median		912.7			8,766.3			2,823.3	
Median Abs Dev		32.3			740.3			31.0	
Avg Within Lab SD		64.1			601.2			181.7	
Labs Included		7			7			7	
Labs Reporting		7			7			7	

SO4 - S (207)

Data units: mg/kg

6278	160.0			2,660.0			998.3		
6334	453.3			3,416.0			1,191.0		
Grand Median		306.7			3,038.0			1,094.7	
Median Abs Dev		146.7			378.0			96.3	
Avg Within Lab SD									
Labs Included		2			2			2	
Labs Reporting		2			2			2	

Cl (208)

Data units: Percent

6283	0.16	-0.50	0.32	0.17	-0.07	0.38	0.38	0.00	0.31
6304	0.38	-0.05	0.01	0.31	-0.03	0.01	0.48	0.00	0.01
6330	0.20	1.96	1.59	0.18	0.28	1.13	0.44	0.93	1.36
6334	0.24	0.18	0.03	0.20	0.11	0.02	0.49	0.09	0.03
6335	0.21	0.00	1.59	0.28	-0.04	0.97	0.22	0.61	0.63
6406	0.15	0.00	0.03	0.18	-0.02	0.01	0.37	0.06	0.01
		0.40	1.10		0.00	1.13		1.09	0.82
		0.11	0.64		0.00	0.02		0.11	0.02
		0.01	0.01		0.22	0.38		-1.66	1.12
		-0.54	0.32		0.08	0.01		-0.17	0.02
		-0.05	0.01		-0.04	0.99		-0.13	1.08
					-0.02	0.02		-0.01	0.02

ALP Program - Participant Web Summary Report - Cycle 07



	SRB0807			SRB0808			SRB0809		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6626	0.09	-1.19 -0.11	0.32 0.01	1.77	4.07 1.57	1.50 0.02	0.35	-0.30 -0.03	1.25 0.02
Grand Median		0.20			0.20			0.38	
Median Abs Dev		0.05			0.03			0.06	
Avg Within Lab SD		0.02			0.02			0.02	
Labs Included		7			7			7	
Labs Reporting		7			7			7	

TKN (209)									
Data units: Percent									
6278	1.77	0.24 0.08	0.64 0.04	6.90	1.49 1.20	0.38 0.03	1.16	0.06 0.02	0.59 0.03
6291	1.38	-0.98 -0.32	1.08 0.06	5.51	-0.24 -0.19	1.79 0.12	1.13	-0.06 -0.02	1.77 0.09
6330	1.61	-0.24 -0.08	1.56 0.09	5.90	0.24 0.19	0.80 0.06	1.02	-0.44 -0.12	0.71 0.04
6381	2.09	1.24 0.40		5.12	-0.73 -0.59		1.75	2.14 0.61	
Grand Median		1.69			5.71			1.14	
Median Abs Dev		0.20			0.39			0.07	
Avg Within Lab SD		0.06			0.07			0.05	
Labs Included		4			4			4	
Labs Reporting		4			4			4	

N- Dry Comb. (210)									
Data units: Percent									
6276	1.63	-1.08 -0.11	0.42 0.01	6.89	1.35 0.48	2.18 0.15	1.05	0.05 0.00	2.11 0.05
6283	1.67	-0.63 -0.07	0.61 0.02	6.32	-0.27 -0.10	0.15 0.01	1.04	-0.05 0.00	0.41 0.01
6284	1.75	0.06 0.01	1.81 0.05						
6304	1.54	-1.88 -0.20	1.37 0.03	5.97	-1.26 -0.45	0.88 0.06	0.93	-1.78 -0.11	0.33 0.01
6334	1.81	0.63 0.07	0.61 0.02	6.09	-0.93 -0.33	0.25 0.02	1.09	0.78 0.05	0.23 0.01
6335	1.76	0.17 0.02	0.18 0.00	6.71	0.84 0.30	1.14 0.08	1.11	1.09 0.07	0.35 0.01
6406	1.63	-1.00 -0.11	1.52 0.04	6.53	0.33 0.12	0.68 0.05	0.99	-0.77 -0.05	0.62 0.02

ALP Program - Participant Web Summary Report - Cycle 07



	SRB0807			SRB0808			SRB0809		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6620	1.74	0.00	0.40	6.34	-0.21	0.69	1.04	-0.05	0.81
6626	1.81	0.63	0.61	6.49	-0.07	0.05	1.10	0.00	0.02
		0.07	0.02		0.21	0.39		0.84	1.43
		0.07	0.02		0.07	0.03		0.05	0.04
Grand Median		1.74		6.42			1.04		
Median Abs Dev		0.07		0.21			0.05		
Avg Within Lab SD		0.02		0.07			0.02		
Labs Included		9		8			8		
Labs Reporting		9		8			8		

S- Dry Comb. (211)

Data units: Percent

6406	0.09			0.51			0.11		
Grand Median		0.09		0.51			0.11		
Median Abs Dev									
Avg Within Lab SD									
Labs Included		1		1			1		
Labs Reporting		1		1			1		

P (212)

in the Wet Digestion Property Groups

Data units: Percent

6276	0.19	0.69	0.04	1.30	0.25	0.35	0.43	0.37	0.23
		0.01	0.00		0.16	0.03		0.05	0.01
6278	0.18	0.61	0.04	1.19	0.07	0.17	0.42	0.31	0.02
		0.01	0.00		0.05	0.01		0.04	0.00
6283	0.18	0.00	0.10	1.14	0.00	0.20	0.37	-0.11	0.16
		0.00	0.01		0.00	0.02		-0.01	0.01
6284	0.17	-0.80	0.10	6.42	8.17	2.06	1.06	5.52	0.16
		-0.01	0.01		5.28	0.16		0.68	0.01
6291	0.18	0.45	0.40	1.03	-0.17	0.19	0.35	-0.24	0.84
		0.01	0.02		-0.11	0.01		-0.03	0.03
6304	0.18	0.00	0.10	1.06	-0.13	0.20	0.34	-0.30	0.32
		0.00	0.01		-0.08	0.02		-0.04	0.01
6327	0.19	1.18	3.83	0.86	-0.43	3.14	0.24	-1.13	3.64
		0.01	0.21		-0.28	0.24		-0.14	0.13
6330	0.16	-1.03	0.17	1.14	0.00	0.16	0.34	-0.32	0.18
		-0.01	0.01		0.00	0.01		-0.04	0.01
6334	0.17	-0.27	0.21	1.14	-0.01	0.20	0.41	0.27	0.43
		0.00	0.01		0.00	0.02		0.03	0.02

ALP Program - Participant Web Summary Report - Cycle 07



	SRB0807			SRB0808			SRB0809		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6335	0.19	1.33 0.02	0.10 0.01	1.26	0.19 0.12	0.52 0.04	0.43	0.43 0.05	0.43 0.02
6343	0.18	0.00 0.00	0.10 0.01	1.33	0.29 0.19	0.13 0.01	0.43	0.43 0.05	0.16 0.01
6381	0.15	-2.12 -0.03		1.05	-0.14 -0.09		0.31	-0.57 -0.07	
6406	0.16	-1.06 -0.01	0.10 0.01	1.00	-0.22 -0.14	0.30 0.02	0.38	-0.03 0.00	0.43 0.02
6620	0.18	0.05 0.00	0.07 0.00	1.16	0.03 0.02	0.32 0.03	0.39	0.08 0.01	0.49 0.02
6626	0.18	0.53 0.01	0.10 0.01	1.14	0.00 0.00	0.26 0.02	0.38	0.00 0.00	0.00 0.00
Grand Median		0.18			1.14			0.38	
Median Abs Dev		0.01			0.09			0.04	
Avg Within Lab SD		0.06			0.08			0.04	
Labs Included		15			15			15	
Labs Reporting		15			15			15	

K (213)		in the Wet Digestion Property Groups								Data units: Percent
6276	2.22	1.38 0.24	0.12 0.04	4.61	1.37 0.73	0.40 0.10	2.79	1.81 0.44	0.29 0.07	
6278	1.97	-0.08 -0.01	0.07 0.02	3.85	-0.06 -0.03	0.13 0.03	2.62	1.10 0.27	0.07 0.02	
6283	1.99	0.06 0.01	0.03 0.01	3.90	0.04 0.02	0.24 0.06	2.35	0.03 0.01	0.11 0.03	
6284	1.79	-1.12 -0.19	0.07 0.02	2.94	-1.78 -0.94	1.09 0.27	2.23	-0.48 -0.12	0.20 0.05	
6291	2.00	0.12 0.02	0.28 0.09	4.06	0.33 0.18	0.16 0.04	2.43	0.33 0.08	0.17 0.04	
6304	2.01	0.15 0.03	0.06 0.02	4.79	1.72 0.91	0.11 0.03	2.33	-0.08 -0.02	0.09 0.02	
6327	1.34	-3.74 -0.64	3.81 1.26	2.91	-1.83 -0.97	3.42 0.85	1.56	-3.22 -0.79	3.81 0.87	
6330	1.88	-0.60 -0.10	0.29 0.10	3.67	-0.40 -0.21	0.82 0.20	2.15	-0.80 -0.20	0.31 0.07	
6334	1.92	-0.35 -0.06	0.47 0.16	3.88	0.00 0.00	0.45 0.11	2.28	-0.27 -0.07	0.31 0.07	
6335	1.98	0.00 0.00	0.16 0.05	3.78	-0.18 -0.10	0.58 0.14	2.35	0.00 0.00	0.18 0.04	
6343	1.89	-0.52 -0.09	0.03 0.01	3.63	-0.48 -0.25	0.06 0.02	2.30	-0.19 -0.05	0.04 0.01	

ALP Program - Participant Web Summary Report - Cycle 07



	SRB0807			SRB0808			SRB0809		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6381	2.15	0.99		4.21	0.62		2.48	0.55	
6406	1.94	0.17	0.05	3.44	0.33	0.18	2.22	0.13	0.19
6620	2.10	-0.25	0.02	3.97	-0.83	0.04	2.50	-0.52	0.04
6626	1.99	0.68	0.15	4.03	0.17	0.76	2.37	0.64	0.26
		0.12	0.05		0.09	0.19		0.16	0.06
		0.08	0.06		0.28	0.04		0.10	0.12
		0.01	0.02		0.15	0.01		0.02	0.03
Grand Median		1.98			3.88			2.35	
Median Abs Dev		0.06			0.21			0.12	
Avg Within Lab SD		0.33			0.25			0.23	
Labs Included		15			15			15	
Labs Reporting		15			15			15	

Ca (214) in the Wet Digestion Property Groups									
Data units: Percent									
6276	0.55	0.31	0.07	1.27	0.92	0.38	1.61	0.84	0.25
6278	0.52	0.02	0.01	1.16	0.13	0.03	1.45	0.23	0.04
6283	0.56	-0.14	0.00	1.18	0.14	0.70	1.43	0.25	0.03
6284	0.55	0.39	0.05	1.06	0.02	0.05	0.37	0.07	0.00
6291	0.53	0.02	0.01	1.04	0.26	0.07	1.19	0.17	0.10
6304	0.51	0.00	0.07	0.95	0.04	0.01	1.16	0.05	0.02
6327	0.73	0.22	0.01	0.88	-0.59	0.61	0.93	-3.76	0.10
6330	0.48	0.01	0.02	1.10	-0.08	0.05	1.25	-1.01	0.02
6334	0.59	0.00	0.11	1.22	-0.71	1.46	1.42	-0.70	1.32
6335	0.60	0.00	0.03	1.26	-0.10	0.11	1.47	-0.19	0.20
6343	0.51	-0.39	0.04	1.10	-1.33	0.07	1.37	-0.82	0.07
6381	0.52	-0.02	0.01	1.20	-0.19	0.01	1.38	-0.22	0.01
6406	0.48	3.35	3.87	0.99	-1.88	3.32	1.29	-1.66	3.57
		0.20	0.87		-0.26	0.26		-0.45	0.54
		-0.89	0.08		-0.28	0.44		-0.49	0.44
		-0.05	0.02		-0.04	0.03		-0.13	0.07
		0.95	0.12		0.55	0.64		0.14	0.25
		0.06	0.03		0.08	0.05		0.04	0.04
		1.06	0.09		0.83	0.37		0.32	0.25
		0.06	0.02		0.12	0.03		0.09	0.04
		-0.39	0.04		-0.28	0.13		-0.04	0.07
		-0.02	0.01		-0.04	0.01		-0.01	0.01
		-0.22			0.43			0.00	
		-0.01			0.06			0.00	
		-0.89	0.04		-1.09	0.27		-0.35	0.21
		-0.05	0.01		-0.15	0.02		-0.09	0.03

ALP Program - Participant Web Summary Report - Cycle 07



	SRB0807			SRB0808			SRB0809		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6620	0.51	-0.40	0.02	1.14	0.00	0.13	1.44	0.23	0.10
6626	0.56	-0.02	0.01	1.25	0.00	0.01	1.47	0.06	0.02
		0.50	0.03		0.81	0.15		0.35	0.08
		0.03	0.01		0.11	0.01		0.09	0.01
Grand Median		0.53		1.14			1.38		
Median Abs Dev		0.02		0.08			0.09		
Avg Within Lab SD		0.23		0.08			0.15		
Labs Included		15		15			15		
Labs Reporting		15		15			15		

Mg (215)		in the Wet Digestion Property Groups								Data units: Percent
6276	0.22	0.72	0.07	0.52	0.77	0.23	0.47	0.81	0.18	
		0.01	0.00		0.05	0.01		0.05	0.01	
6278	0.23	1.24	0.08	0.49	0.36	0.08	0.46	0.65	0.01	
		0.02	0.01		0.02	0.00		0.04	0.00	
6283	0.21	0.00	0.00	0.46	0.00	0.18	0.42	-0.06	0.12	
		0.00	0.00		0.00	0.01		0.00	0.01	
6284	0.19	-1.04	0.09	0.42	-0.69	0.63	0.42	-0.06	0.12	
		-0.02	0.01		-0.05	0.02		0.00	0.01	
6291	0.21	0.21	0.38	0.39	-1.03	1.43	0.33	-1.57	1.22	
		0.00	0.03		-0.07	0.05		-0.09	0.06	
6304	0.20	-0.41	0.09	0.41	-0.73	0.18	0.37	-0.90	0.33	
		-0.01	0.01		-0.05	0.01		-0.05	0.02	
6327	0.22	0.91	3.84	0.36	-1.51	3.37	0.28	-2.35	3.53	
		0.01	0.25		-0.10	0.11		-0.14	0.16	
6330	0.20	-0.62	0.31	0.46	-0.10	0.18	0.39	-0.45	0.54	
		-0.01	0.02		-0.01	0.01		-0.03	0.03	
6334	0.23	1.45	0.09	0.53	0.98	0.30	0.47	0.84	0.57	
		0.02	0.01		0.07	0.01		0.05	0.03	
6335	0.23	1.04	0.09	0.56	1.37	0.46	0.48	1.06	0.12	
		0.02	0.01		0.09	0.02		0.06	0.01	
6343	0.20	-0.62	0.00	0.43	-0.49	0.00	0.39	-0.50	0.00	
		-0.01	0.00		-0.03	0.00		-0.03	0.00	
6381	0.21	0.00		0.49	0.39		0.43	0.17		
		0.00			0.03			0.01		
6406	0.19	-1.04	0.09	0.41	-0.83	0.46	0.42	0.00	0.37	
		-0.02	0.01		-0.06	0.02		0.00	0.02	
6620	0.21	0.21	0.03	0.48	0.28	0.62	0.45	0.49	0.26	
		0.00	0.00		0.02	0.02		0.03	0.01	
6626	0.20	-0.62	0.00	0.50	0.59	0.35	0.43	0.22	0.12	
		-0.01	0.00		0.04	0.01		0.01	0.01	

ALP Program - Participant Web Summary Report - Cycle 07



SRB0807

Sample Mean	Z Score	k Score
Difference	W/L STD	

SRB0808

Sample Mean	Z Score	k Score
Difference	W/L STD	

SRB0809

Sample Mean	Z Score	k Score
Difference	W/L STD	

Grand Median	0.21	0.46	0.42
Median Abs Dev	0.01	0.05	0.03
Avg Within Lab SD	0.07	0.03	0.05
Labs Included	15	15	15
Labs Reporting	15	15	15

S (216)

in the Wet Digestion Property Groups

Data units: Percent

6276	0.12	0.87	0.16	0.66	0.94	0.54	0.17	0.89	0.18
		0.01	0.00		0.10	0.01		0.02	0.00
6278	0.11	0.02	0.00	0.62	0.48	0.04	0.16	0.25	0.05
		0.00	0.00		0.05	0.00		0.01	0.00
6283	0.11	0.00	0.29	0.57	0.00	0.22	0.15	0.00	0.00
		0.00	0.01		0.00	0.01		0.00	0.00
6284	0.11	0.45	0.58	0.51	-0.52	0.59	0.15	0.00	0.79
		0.01	0.01		-0.05	0.02		0.00	0.01
6304	0.10	-0.22	0.29	0.47	-0.91	0.59	0.13	-0.75	0.79
		0.00	0.01		-0.09	0.02		-0.02	0.01
6327	0.06	-3.06	3.21	0.32	-2.46	3.00	0.08	-2.74	2.86
		-0.05	0.06		-0.25	0.08		-0.07	0.04
6330	0.10	-0.45	0.00	0.56	-0.03	0.22	0.13	-0.88	0.46
		-0.01	0.00		0.00	0.01		-0.02	0.01
6334	0.11	0.45	0.29	0.59	0.23	0.38	0.17	0.75	0.79
		0.01	0.01		0.02	0.01		0.02	0.01
6343	0.10	-0.22	0.29	0.58	0.13	0.77	0.13	-0.75	0.79
		0.00	0.01		0.01	0.02		-0.02	0.01
6381	0.13	1.56		0.40	-1.63		0.16	0.38	
		0.02			-0.17			0.01	
6620	0.10	-0.13	0.12	0.57	0.08	0.44	0.15	-0.04	0.27
		0.00	0.00		0.01	0.01		0.00	0.00

Grand Median	0.11	0.57	0.15
Median Abs Dev	0.01	0.05	0.02
Avg Within Lab SD	0.02	0.03	0.01
Labs Included	11	11	11
Labs Reporting	11	11	11

Na (217)

in the Wet Digestion Property Groups

Data units: Percent

6276	0.010	-0.41	0.01	0.015	0.00	0.13	0.15	0.90	0.30
		-0.010	0.000		0.000	0.001		0.02	0.00

ALP Program - Participant Web Summary Report - Cycle 07



	SRB0807			SRB0808			SRB0809		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6278	0.020	0.01	0.11	0.015	0.02	0.21	0.16	0.94	0.16
6283	0.010	0.000	0.003	0.010	0.000	0.001	0.13	0.02	0.00
6284	0.023	-0.40	0.00	0.010	-0.20	0.00	0.13	-0.29	0.36
6291	0.110	-0.010	0.000	0.027	0.52	1.20	0.14	0.29	0.00
6304	0.013	0.13	0.42	0.027	0.012	0.006	0.14	0.01	0.00
6327	0.080	3.56	0.36	0.080	2.81	2.08	0.17	1.74	1.44
6330	0.010	0.090	0.010	0.010	0.065	0.010	0.13	0.04	0.02
6334	0.027	-0.26	0.21	0.010	-0.20	0.00	0.13	0.00	0.36
6335	0.010	-0.007	0.006	0.010	-0.005	0.000	0.13	0.00	0.01
6343	0.010	2.38	3.81	0.034	0.83	2.20	0.11	-1.13	3.42
6381	0.020	0.060	0.105	0.010	0.019	0.011	0.11	-0.03	0.05
6406	0.007	-0.40	0.00	0.010	-0.20	0.00	0.12	-0.72	0.72
6406	0.007	-0.010	0.000	0.010	-0.005	0.000	0.12	-0.02	0.01
6620	0.026	0.26	0.21	0.027	0.52	1.20	0.10	-1.45	0.00
6626	0.040	0.007	0.006	0.027	0.012	0.006	0.10	-0.03	0.00
6626	0.040	-0.40	0.00	0.097	3.52	1.20	0.14	0.43	0.36
6626	0.040	-0.010	0.000	0.010	0.082	0.006	0.14	0.01	0.01
6626	0.040	-0.40	0.00	0.010	-0.20	0.00	0.14	0.29	0.00
6626	0.040	-0.010	0.000	0.010	-0.005	0.000	0.14	0.01	0.00
6626	0.040	0.00		0.020	0.23		0.14	0.29	
6626	0.040	0.000		0.020	0.005		0.14	0.01	
6626	0.040	-0.50	0.08	0.006	-0.36	0.48	0.12	-0.49	0.06
6626	0.040	-0.013	0.002	0.006	-0.008	0.002	0.12	-0.01	0.00
6626	0.040	0.22	0.18	0.010	-0.20	0.00	0.12	-0.72	0.36
6626	0.040	0.006	0.005	0.010	-0.005	0.000	0.12	-0.02	0.01
6626	0.040	0.79	0.00	0.007	-0.33	1.08	0.12	-0.43	0.36
6626	0.040	0.020	0.000	0.007	-0.008	0.005	0.12	-0.01	0.01
Grand Median		0.020			0.015			0.13	
Median Abs Dev		0.010			0.005			0.01	
Avg Within Lab SD		0.028			0.005			0.02	
Labs Included		15			15			15	
Labs Reporting		15			15			15	

Al (218) in the Wet Digestion Property Groups Data units: mg/kg

6283	1,195.7	0.08	0.21	17.7	-0.52	0.50	24.6	-0.53	0.08
		43.3	20.4		-6.2	1.9		-8.1	1.2
6284	371.3	-1.52	0.32	18.0	-0.49	1.69	16.7	-1.05	0.39
		-781.1	31.3		-5.9	6.2		-16.0	5.5
6304	1,109.1	-0.08	0.06	26.3	0.20	0.18	30.4	-0.15	0.02
		-43.3	5.7		2.4	0.7		-2.3	0.4

ALP Program - Participant Web Summary Report - Cycle 07



	SRB0807			SRB0808			SRB0809		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6327	224.4	-1.81	2.48	27.5	0.30	1.80	71.5	2.53	2.76
6330	1,229.7	-928.0	246.1	33.0	0.76	1.08	35.0	0.15	0.44
6334	460.3	77.3	111.2	48.0	9.1	4.0	35.7	2.3	6.2
6335	1,241.3	-1.35	0.06	21.5	2.01	0.47	36.2	0.19	0.11
6406	1,271.3	-692.1	6.4	13.0	24.1	1.7	24.0	3.0	1.5
		0.17	0.64		-0.20	0.38		0.23	0.07
		89.0	63.5		-2.4	1.4		3.5	1.0
		0.23	0.13		-0.91	0.27		-0.57	0.07
		119.0	12.9		-10.9	1.0		-8.7	1.0
Grand Median		1,152.4			23.9			32.7	
Median Abs Dev		104.0			6.1			5.8	
Avg Within Lab SD		99.1			3.7			14.2	
Labs Included		8			8			8	
Labs Reporting		8			8			8	

B (219) in the Wet Digestion Property Groups Data units: mg/kg

6278	13.7	-0.11	0.53	23.0	0.10	1.38	40.7	1.04	0.21
6283	13.7	-0.4	0.6	19.3	0.3	1.0	32.5	4.7	0.6
6284	12.3	-0.09	0.37	20.0	-1.08	0.24	36.0	-0.78	0.06
6304	14.8	-0.3	0.4	23.5	-3.4	0.2	36.6	-3.5	0.2
6327	16.1	-0.52	1.39		-0.86			0.00	0.37
6330	16.7	-1.7	1.5		-2.7			0.0	1.0
6334	14.3	0.22	0.27		0.27	0.57		0.13	0.09
6335	17.6	0.7	0.3		0.8	0.4		0.6	0.2
6343	8.2	0.64							
6406	7.5	2.1							
6620	16.1	0.81	2.93	23.7	0.31	1.59	29.7	-1.41	3.09
6626	13.7	2.6	3.2	23.0	1.0	1.2	38.0	-6.3	8.4
		0.09	0.53	23.0	0.10	1.38	41.4	0.44	0.64
		0.3	0.6	25.2	0.3	1.0	33.6	2.0	1.7
		1.08	0.59	17.0	0.79	1.86	31.8	1.21	0.82
		3.5	0.6	16.4	2.5	1.3	40.2	5.4	2.2
		-1.79	0.09	22.7	-1.81	0.28	36.0	-0.53	0.07
		-5.8	0.1	16.4	-5.7	0.2	31.8	-2.4	0.2
		-1.99	0.29	22.3	-2.00	0.27	40.2	-0.94	0.04
		-6.5	0.3		-6.3	0.2		-4.2	0.1
		0.63	0.16		0.00	0.14		0.94	0.43
		2.1	0.2		0.0	0.1		4.2	1.2
		-0.11	0.53		-0.12	0.80		0.00	
		-0.4	0.6		-0.4	0.6		0.0	

ALP Program - Participant Web Summary Report - Cycle 07



SRB0807

Sample Mean Z Score k Score
Difference W/L STD

SRB0808

Sample Mean Z Score k Score
Difference W/L STD

SRB0809

Sample Mean Z Score k Score
Difference W/L STD

Grand Median	14.0	22.7	36.0
Median Abs Dev	1.9	1.0	3.5
Avg Within Lab SD	1.1	0.7	2.7
Labs Included	12	11	11
Labs Reporting	12	11	11

Zn (220)

in the Wet Digestion Property Groups

Data units: mg/kg

Sample ID	SRB0807 Mean	SRB0807 Z	SRB0807 k	SRB0808 Mean	SRB0808 Z	SRB0808 k	SRB0809 Mean	SRB0809 Z	SRB0809 k
6276	21.5	0.56	0.07	98.2	0.80	0.24	56.4	1.25	0.11
		1.7	0.6		9.6	2.3		9.4	0.8
6278	18.2	-0.51	0.00	83.4	-0.44	0.02	47.5	0.08	0.07
		-1.6	0.0		-5.3	0.2		0.6	0.5
6283	19.0	-0.27	0.04	82.4	-0.52	0.09	46.8	-0.02	0.03
		-0.8	0.3		-6.2	0.9		-0.2	0.2
6284	19.7	-0.04	0.07	81.3	-0.61	0.47	49.7	0.36	0.48
		-0.1	0.6		-7.3	4.5		2.7	3.5
6291	25.8	1.94	0.12	119.0	2.53	0.10	66.4	2.58	0.32
		6.0	1.0		30.3	1.0		19.5	2.4
6304	19.8	0.00	0.04	66.4	-1.86	0.05	36.1	-1.44	0.01
		0.0	0.3		-22.2	0.4		-10.9	0.1
6327	29.7	3.19	3.86	88.8	0.01	3.74	41.7	-0.70	3.77
		9.9	31.9		0.1	35.7		-5.3	27.5
6330	20.0	0.07	0.12	88.7	0.00	0.67	46.0	-0.12	0.14
		0.2	1.0		0.0	6.4		-0.9	1.0
6334	22.3	0.82	0.07	83.3	-0.45	0.24	53.0	0.80	0.50
		2.5	0.6		-5.3	2.3		6.1	3.6
6335	20.9	0.36	0.06	101.5	1.07	0.16	54.5	1.00	0.21
		1.1	0.5		12.8	1.6		7.6	1.5
6343	17.7	-0.67	0.01	80.5	-0.68	0.01	44.0	-0.39	0.14
		-2.1	0.1		-8.2	0.1		-2.9	1.0
6381	19.8	-0.01		92.4	0.31		46.9	0.00	
		0.0			3.7			0.0	
6406	18.0	-0.58		80.7	-0.67	0.16	44.0	-0.39	0.14
		-1.8			-8.0	1.5		-2.9	1.0
6620	19.8	0.01	0.10	90.8	0.18	0.35	52.0	0.68	0.25
		0.0	0.9		2.1	3.3		5.1	1.8
6626	16.3	-1.11	0.07	88.7	0.00	0.12	44.7	-0.30	0.08
		-3.5	0.6		0.0	1.2		-2.3	0.6

ALP Program - Participant Web Summary Report - Cycle 07



	SRB0807			SRB0808			SRB0809		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
Grand Median	19.8			88.7			46.9		
Median Abs Dev	1.6			6.2			2.9		
Avg Within Lab SD	8.3			9.5			7.3		
Labs Included	15			15			15		
Labs Reporting	15			15			15		

Mn (221)	in the Wet Digestion Property Groups									Data units: mg/kg
6276	63.8	0.55	0.07	128.7	1.26	0.21	129.6	0.99	0.22	
		3.2	1.2		18.7	1.8		17.2	2.6	
6278	70.0	1.64	0.03	117.8	0.52	0.13	123.4	0.64	0.06	
		9.3	0.6		7.8	1.1		11.1	0.7	
6283	59.2	-0.26	0.04	115.8	0.39	0.17	115.1	0.16	0.04	
		-1.5	0.8		5.8	1.4		2.7	0.5	
6284	61.0	0.06	0.43	110.0	0.00	0.55	117.3	0.29	0.12	
		0.3	7.9		0.0	4.6		5.0	1.5	
6304	51.1	-1.68	0.02	88.0	-1.48	0.02	88.8	-1.36	0.02	
		-9.5	0.4		-22.0	0.1		-23.6	0.2	
6327	63.1	0.43	3.71	93.2	-1.13	3.49	76.9	-2.05	3.68	
		2.5	68.7		-16.8	29.3		-35.4	45.0	
6330	60.3	-0.06	0.06	116.3	0.43	0.61	109.3	-0.18	0.17	
		-0.3	1.2		6.3	5.1		-3.1	2.1	
6334	61.7	0.18	0.03	124.0	0.94	0.43	118.7	0.36	0.39	
		1.0	0.6		14.0	3.6		6.3	4.7	
6335	62.1	0.25	0.07	110.0	0.00	0.82	127.3	0.86	0.31	
		1.4	1.3		0.0	6.9		14.9	3.8	
6343	58.0	-0.47		110.0	0.00	0.12	109.7	-0.16	0.17	
		-2.7			0.0	1.0		-2.7	2.1	
6381	52.9	-1.37		106.6	-0.23		100.4	-0.69		
		-7.8			-3.4			-12.0		
6406	57.0	-0.64	0.05	99.7	-0.69	0.27	103.0	-0.54	0.25	
		-3.7	1.0		-10.3	2.3		-9.4	3.0	
6620	61.9	0.21	0.02	115.7	0.38	0.18	120.7	0.48	0.12	
		1.2	0.5		5.7	1.5		8.3	1.5	
6626	51.3	-1.64	0.08	80.3	-1.99	0.25	100.3	-0.70	0.12	
		-9.3	1.5		-29.7	2.1		-12.1	1.5	
Grand Median	60.7			110.0			112.4			
Median Abs Dev	2.6			7.1			10.2			
Avg Within Lab SD	18.5			8.4			12.2			
Labs Included	14			14			14			
Labs Reporting	14			14			14			

ALP Program - Participant Web Summary Report - Cycle 07



SRB0807

Sample Mean Z Score k Score
Difference W/L STD

SRB0808

Sample Mean Z Score k Score
Difference W/L STD

SRB0809

Sample Mean Z Score k Score
Difference W/L STD

Fe (222)		in the Wet Digestion Property Groups									Data units: mg/kg
6276	1,203.9	0.53	0.79	135.0	-0.64	0.29	32.4	-0.83	0.18		
		202.0	57.1		-17.9	15.5		-9.9	1.0		
6278	1,653.3	1.72	0.62	168.3	0.55	0.03	54.0	0.98	0.17		
		651.4	45.1		15.4	1.5		11.7	1.0		
6283	1,002.0	0.00	0.16	148.5	-0.16	0.04	39.3	-0.26	0.06		
		0.0	11.3		-4.4	2.3		-3.0	0.4		
6284	448.7	-1.46	0.30	144.3	-0.31	0.09	49.3	0.59	0.80		
		-553.3	21.8		-8.6	4.9		7.0	4.7		
6291	978.0	-0.06	1.97	120.7	-1.16	0.03	38.6	-0.31	1.06		
		-24.0	142.3		-32.2	1.5		-3.7	6.3		
6304	1,127.0	0.33	0.29	152.9	0.00	0.01	41.7	-0.05	0.06		
		125.0	21.0		0.0	0.6		-0.6	0.3		
6327	182.4	-2.17	2.63	244.2	3.27	3.86	34.2	-0.69	3.39		
		-819.6	189.6		91.3	204.0		-8.1	20.0		
6330	1,002.3	0.00	1.44	156.3	0.12	0.06	53.0	0.90	0.45		
		0.4	103.9		3.4	3.2		10.7	2.6		
6334	557.7	-1.18	0.70	176.0	0.83	0.08	67.0	2.08	1.11		
		-444.3	50.7		23.1	4.0		24.7	6.6		
6335	738.5	-0.70	0.47	161.2	0.30	0.06	44.9	0.22	0.29		
		-263.5	33.9		8.3	2.9		2.6	1.7		
6343	982.3	-0.05	0.20	156.0	0.11	0.06	48.7	0.54	0.26		
		-19.6	14.6		3.1	3.0		6.4	1.5		
6381	1,075.9	0.20		153.3	0.01		42.3	0.00			
		73.9			0.4			0.0			
6406	1,019.7	0.05	0.26	123.0	-1.07	0.02	32.3	-0.84	0.20		
		17.7	18.4		-29.9	1.0		-10.0	1.2		
6620	1,073.3	0.19	0.32	148.0	-0.18	0.03	42.7	0.04	0.06		
		71.4	23.1		-4.9	1.7		0.4	0.4		
6626	446.0	-1.47	0.07	113.7	-1.41	0.03	21.0	-1.79			
		-556.0	5.0		-39.2	1.5		-21.3			
Grand Median		1,002.0			152.9			42.3			
Median Abs Dev		125.0			8.6			7.0			
Avg Within Lab SD		72.2			52.9			5.9			
Labs Included		15			15			15			
Labs Reporting		15			15			15			

Cu (223)		in the Wet Digestion Property Groups									Data units: mg/kg
6276	5.24	-0.40	0.14	26.5	0.55	0.51	21.4	0.56	0.30		
		-0.76	0.53		2.6	1.1		2.1	0.6		

ALP Program - Participant Web Summary Report - Cycle 07



	SRB0807			SRB0808			SRB0809		
	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			0.51			0.45	
Median Abs Dev		0.19			0.50			0.44	
Avg Within Lab SD									
Labs Included		2			2			2	
Labs Reporting		2			2			2	

ALP Program - Participant Web Summary Report - Cycle 07



SRW0807

Sample Mean Z Score k Score
Difference W/L STD

SRW0808

Sample Mean Z Score k Score
Difference W/L STD

SRW0809

Sample Mean Z Score k Score
Difference W/L STD

Water Properties

PH (301)

Data units: Unit

6278	7.70	0.08			8.12	0.27			8.14	0.26	
		0.03				0.07				0.07	
6304	7.64	-0.08	0.65		7.69	-1.42	1.53		7.97	-0.39	1.98
		-0.03	0.07			-0.37	0.12			-0.10	0.07
6306	7.92	0.63	0.94		8.18	0.49	0.07		8.22	0.58	0.41
		0.25	0.10			0.13	0.01			0.15	0.02
6327	8.07	1.00	0.57		8.37	1.23	0.73		8.40	1.25	0.00
		0.40	0.06			0.32	0.06			0.33	0.00
6330	7.63	-0.09	2.06		8.07	0.06	1.94		8.10	0.11	0.00
		-0.04	0.21			0.02	0.15			0.03	0.00
6335	8.17	1.25	0.57		7.90	-0.59	0.00		7.63	-1.65	1.55
		0.50	0.06			-0.15	0.00			-0.44	0.06
6620	7.45	-0.55	0.45		8.04	-0.06	0.51		8.04	-0.11	0.71
		-0.22	0.05			-0.02	0.04			-0.03	0.03
6626	6.98	-1.73	0.76		7.72	-1.29	0.25		7.79	-1.04	0.15
		-0.69	0.08			-0.33	0.02			-0.28	0.01
Grand Median		7.67			8.05				8.07		
Median Abs Dev		0.24			0.14				0.13		
Avg Within Lab SD		0.10			0.08				0.04		
Labs Included		8			8				8		
Labs Reporting		8			8				8		

EC (302)

Data units: dS/m

6278	0.11	-0.14			3.78	-0.15			1.48	-0.10	
		0.00				-0.04				-0.01	
6304	0.14	2.03	0.26		3.24	-2.31	0.75		1.22	-2.64	0.14
		0.03	0.00			-0.58	0.06			-0.27	0.00
6306	0.14	1.92	1.95		3.91	0.36	0.66		1.56	0.71	0.69
		0.03	0.02			0.09	0.05			0.07	0.02
6327	0.11	0.01	0.58		3.85	0.15	1.74		1.52	0.26	1.90
		0.00	0.00			0.04	0.13			0.03	0.06
6330	0.11	-0.01	0.00		3.93	0.46	0.15		1.51	0.16	0.19
		0.00	0.00			0.12	0.01			0.02	0.01
6335	0.10	-0.86	0.75		3.62	-0.77	0.20		1.45	-0.39	0.33
		-0.01	0.01			-0.19	0.02			-0.04	0.01
6620	0.12	0.41	1.50		3.57	-0.97	1.70		1.38	-1.04	1.62
		0.01	0.01			-0.24	0.13			-0.11	0.05

ALP Program - Participant Web Summary Report - Cycle 07



	SRW0807			SRW0808			SRW0809		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6626	0.11	-0.01 0.00	0.00 0.00	3.87	0.23 0.06	0.20 0.02	1.50	0.10 0.01	0.33 0.01
Grand Median		0.11		3.82			1.49		
Median Abs Dev		0.00		0.10			0.03		
Avg Within Lab SD		0.01		0.08			0.03		
Labs Included		8		8			8		
Labs Reporting		8		8			8		

Ca (303)			in the Cations Property Groups						Data units: mmolc/L
6278	0.50	0.04 0.01		14.7	0.14 0.4		5.00	0.06 0.07	
6304	0.28	-1.54 -0.22	0.10 0.00	6.2	-2.65 -8.0	0.05 0.0	2.38	-2.42 -2.56	0.15 0.03
6306	0.60	0.73 0.10	0.08 0.00	14.6	0.13 0.4	0.33 0.2	5.09	0.15 0.16	0.00
6327	0.49	-0.04 -0.01	0.68 0.02	13.8	-0.13 -0.4	0.92 0.5	4.87	-0.06 -0.07	0.83 0.14
6330	0.64	1.06 0.15	1.38 0.04	15.0	0.26 0.8	1.13 0.6	5.84	0.85 0.90	0.28 0.05
6335	0.43	-0.49 -0.07	0.45 0.01	13.7	-0.18 -0.5	0.15 0.1	4.80	-0.12 -0.13	0.31 0.05
6620	0.51	0.10 0.01	2.10 0.05	14.7	0.15 0.5	2.11 1.0	5.26	0.31 0.33	2.38 0.40
6626	0.30	-1.40 -0.20	0.00 0.00	8.9	-1.76 -5.3	0.54 0.3	3.43	-1.42 -1.50	0.69 0.12
Grand Median		0.50		14.2			4.94		
Median Abs Dev		0.09		0.5			0.24		
Avg Within Lab SD		0.03		0.5			0.17		
Labs Included		8		8			8		
Labs Reporting		8		8			8		

Mg (304)			in the Cations Property Groups						Data units: mmolc/L
6278	0.14	-0.06 0.00		10.4	0.07 0.1		3.46	-0.05 -0.02	
6304	0.09	-1.17 -0.05	0.08 0.00	4.8	-3.95 -5.6	0.06 0.0	1.72	-3.55 -1.76	0.42 0.03
6306	0.15	0.06 0.00	0.83 0.02	11.0	0.46 0.6	0.96 0.2	3.14	-0.69 -0.34	0.97 0.07

ALP Program - Participant Web Summary Report - Cycle 07



	SRW0807			SRW0808			SRW0809		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6327	0.14	-0.13	0.23	9.7	-0.45	0.94	3.29	-0.38	0.98
6330	0.22	-0.01	0.01	10.3	-0.6	0.2	3.61	-0.19	0.07
6335	0.09	1.85	0.99	10.5	-0.01	2.05	3.56	0.26	1.93
6620	0.16	0.08	0.03	10.4	0.0	0.5	3.61	0.13	0.14
6626	0.17	-1.28	0.23	9.9	0.14	0.35	3.50	0.16	0.28
		-0.06	0.01		0.2	0.1		0.08	0.02
		0.29	0.02		0.01	0.90		0.27	1.06
		0.01	0.00		0.0	0.2		0.13	0.08
		0.55	2.28		-0.30	0.22		0.05	
		0.02	0.06		-0.4	0.1		0.02	
Grand Median		0.14		10.3			3.48		
Median Abs Dev		0.02		0.3			0.13		
Avg Within Lab SD		0.03		0.3			0.07		
Labs Included		8		8			8		
Labs Reporting		8		8			8		

Na (305) in the Cations Property Groups									
Data units: mmolc/L									
6278	0.47	-0.54		23.0	-0.25		7.83	-0.20	
6304	0.52	-0.05	0.06	22.0	-0.4	0.02	7.86	-0.08	0.23
6306	0.52	-0.03	0.00	25.2	-0.93	0.0	7.95	-0.11	0.04
6327	0.51	0.03	0.83	20.9	1.32	0.15	7.61	0.11	0.56
6330	0.75	0.00	0.06	23.4	1.9	0.1	7.97	0.04	0.10
6335	0.42	-0.12	0.58	24.1	-1.70	2.16	6.84	-0.76	1.24
6620	0.54	-0.01	0.04	24.2	-2.5	1.7	8.32	-0.30	0.21
6626	0.63	2.29	2.39	23.3	0.04	1.28	8.00	0.17	1.68
		0.23	0.17		0.1	1.0		0.07	0.29
		-1.02	0.30		0.50	0.52		-2.73	0.35
		-0.10	0.02		0.7	0.4		-1.07	0.06
		0.20	0.14		0.60	0.56		1.07	1.34
		0.02	0.01		0.9	0.4		0.42	0.23
		1.15	0.41		-0.04	0.32		0.24	0.58
		0.11	0.03		-0.1	0.3		0.09	0.10
Grand Median		0.52		23.3			7.91		
Median Abs Dev		0.04		0.8			0.09		
Avg Within Lab SD		0.07		0.8			0.17		
Labs Included		8		8			8		
Labs Reporting		8		8			8		

ALP Program - Participant Web Summary Report - Cycle 07



SRW0807

Sample Mean	Z Score	k Score
Difference	W/L	STD

SRW0808

Sample Mean	Z Score	k Score
Difference	W/L	STD

SRW0809

Sample Mean	Z Score	k Score
Difference	W/L	STD

K (306)	in the Cations Property Groups									Data units: mmolc/L	
6278	0.018	-0.36			0.90	0.11			0.30	-0.02	
		-0.012				0.01				0.00	
6304	0.030	0.00	0.02		0.78	-1.46	0.08		0.31	0.16	0.03
		0.000	0.001			-0.11	0.00			0.01	0.00
6306					0.83	-0.87	1.27		0.59	3.71	2.23
						-0.07	0.04			0.29	0.30
6327	0.020	-0.30	0.00		0.89	0.02	0.72		0.29	-0.11	0.07
		-0.010	0.000			0.00	0.03			-0.01	0.01
6330	0.120	2.71	2.00		0.89	-0.02	1.25		0.30	0.02	0.13
		0.090	0.106			0.00	0.04			0.00	0.02
6335	0.030	0.00	0.00		1.01	1.56	1.14		0.30	-0.02	0.04
		0.000	0.000			0.12	0.04			0.00	0.01
Grand Median		0.030				0.89				0.30	
Median Abs Dev		0.010				0.04				0.01	
Avg Within Lab SD		0.053				0.03				0.13	
Labs Included		5				6				6	
Labs Reporting		5				6				6	

NH4-N (307)	in the Cations Property Groups									Data units: mmolc/L
6278					0.009					
Grand Median					0.009					
Median Abs Dev										
Avg Within Lab SD										
Labs Included		0			1				0	
Labs Reporting		0			1				0	

Sum Cations (308)	in the Cations Property Groups									Data units: mmolc/L	
6278	1.12	0.00			49.0	-0.15			16.6	0.00	
		0.00				-0.3				0.0	
6306	1.27	0.54	0.31		51.7	1.16	0.45		16.8	0.23	1.04
		0.15	0.04			2.4	0.4			0.2	0.3
6327	1.12	0.00	0.51		45.3	-1.90	1.27		16.1	-0.60	1.02
		0.00	0.07			-4.0	1.0			-0.5	0.3
6330	1.73	2.24	1.90		49.6	0.16	1.42		17.7	1.30	1.38
		0.61	0.25			0.3	1.2			1.1	0.4

ALP Program - Participant Web Summary Report - Cycle 07



	SRW0807			SRW0808			SRW0809		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6335	0.96	-0.60 -0.16	0.20 0.03	49.3	0.00 0.0	0.42 0.3	15.5	-1.24 -1.1	0.02 0.0
Grand Median		1.12		49.3			16.6		
Median Abs Dev		0.15		0.3			0.5		
Avg Within Lab SD		0.13		0.8			0.3		
Labs Included		5		5			5		
Labs Reporting		5		5			5		

SAR (309)			in the Cations Property Groups						Data units:	
6306	0.86	-0.01 0.00	0.73 0.11	7.03	0.21 0.12	0.33 0.10	3.91	0.39 0.14	0.65 0.06	
6327	0.86	0.00 0.00	0.41 0.06	6.09	-1.41 -0.82	1.92 0.57	3.77	0.00 0.00	1.25 0.12	
6330	1.13	1.17 0.27	1.78 0.26	6.57	-0.58 -0.34	0.95 0.28	3.67	-0.28 -0.10	1.28 0.12	
6335	0.82	-0.17 -0.04	0.25 0.04	6.91	0.00 0.00	0.43 0.13	3.35	-1.20 -0.42	0.44 0.04	
6626	1.33	2.02 0.47	1.04 0.15	7.60	1.18 0.69	0.33 0.10	4.30	1.50 0.53	1.09 0.10	
Grand Median		0.86		6.91			3.77			
Median Abs Dev		0.04		0.34			0.14			
Avg Within Lab SD		0.15		0.30			0.09			
Labs Included		5		5			5			
Labs Reporting		5		5			5			

Adj-SAR (310)		in the Cations Property Groups				Data units:	
6306	0.63		8.40		4.37		
6330	0.94		18.76		8.05		
6626	0.83		9.20		4.77		
Grand Median		0.83		9.20		4.77	
Median Abs Dev		0.11		0.80		0.40	
Avg Within Lab SD							
Labs Included		3		3		3	
Labs Reporting		3		3		3	

ALP Program - Participant Web Summary Report - Cycle 07



SRW0807

Sample Mean Z Score k Score
Difference W/L STD

SRW0808

Sample Mean Z Score k Score
Difference W/L STD

SRW0809

Sample Mean Z Score k Score
Difference W/L STD

HCO3 (311)				in the Anions Property Groups						Data units: mmolc/L
6278	0.85	0.52		7.40	0.05		2.95	0.10		
		0.05			0.04			0.03		
6306	0.80	0.03	0.01	7.06	-0.45	0.27	2.96	0.13	0.00	
		0.00	0.00		-0.31	0.11		0.05	0.00	
6327	0.74	-0.62	0.00	6.04	-1.94	0.18	2.48	-1.28	0.50	
		-0.06	0.00		-1.33	0.07		-0.43	0.07	
6330	0.84	0.41	0.00	6.21	-1.68	2.05	2.61	-0.89	2.28	
		0.04	0.00		-1.15	0.82		-0.30	0.31	
6335	0.52	-2.93	2.20	7.36	0.00	0.08	2.92	0.00	0.31	
		-0.28	0.04		0.00	0.03		0.00	0.04	
6620	0.78	-0.21	1.08	7.41	0.07	1.15	2.81	-0.30	0.68	
		-0.02	0.02		0.05	0.46		-0.10	0.09	
6626	0.80	0.00	0.00	7.73	0.54	0.58	3.60	2.01	0.00	
		0.00	0.00		0.37	0.23		0.68	0.00	
Grand Median		0.80			7.36			2.92		
Median Abs Dev		0.04			0.31			0.10		
Avg Within Lab SD		0.02			0.40			0.14		
Labs Included		7			7			7		
Labs Reporting		7			7			7		

CO3 (312)				in the Anions Property Groups						Data units: mmolc/L
6278				0.15	-0.97		0.05	-1.56		
					-0.32			-0.23		
6306				0.90	1.29	0.00	0.35	0.54	0.77	
					0.43	0.00		0.08	0.05	
6327				0.55	0.22	1.49	0.23	-0.30	0.98	
					0.07	0.14		-0.04	0.07	
6330				0.40	-0.22	0.88	0.32	0.30	1.21	
					-0.07	0.08		0.04	0.08	
Grand Median					0.47			0.28		
Median Abs Dev					0.20			0.06		
Avg Within Lab SD										
Labs Included		0			4			4		
Labs Reporting		0			4			4		

Cl (313)				in the Anions Property Groups						Data units: mmolc/L
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ALP Program - Participant Web Summary Report - Cycle 07



	SRW0807			SRW0808			SRW0809		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6278	0.18	0.29 0.06		5.80	-0.10 -0.16		1.97	0.02 0.01	
6304	0.00	-0.65 -0.13	0.00 0.00	0.00	-3.72 -5.95	0.00 0.00	0.00	-4.08 -1.96	0.00 0.00
6306	0.12	-0.02 0.00	0.05 0.01	6.87	0.57 0.91	2.59 0.69	2.04	0.16 0.08	0.08 0.01
6327	0.13	0.02 0.00	0.00 0.00	5.66	-0.19 -0.30	0.16 0.04	1.89	-0.15 -0.07	0.04 0.01
6330	0.19	0.35 0.07	0.82 0.09	6.34	0.24 0.38	0.27 0.07	2.13	0.35 0.17	1.63 0.23
6335	0.10	-0.14 -0.03	0.09 0.01	6.27	0.20 0.31	0.33 0.09	2.13	0.35 0.17	0.18 0.03
6620	0.07	-0.27 -0.05	0.10 0.01	6.11	0.10 0.16	0.31 0.08	1.95	-0.02 -0.01	0.56 0.08
6626	0.83	3.66 0.71	2.51 0.29	5.50	-0.28 -0.45		1.83	-0.27 -0.13	2.00 0.29
Grand Median		0.13			5.95			1.96	
Median Abs Dev		0.05			0.35			0.10	
Avg Within Lab SD		0.11			0.26			0.14	
Labs Included		8			8			8	
Labs Reporting		8			8			8	

NO3 (314)			in the Anions Property Groups						Data units: mmol/L		
6278	0.012	-0.32 -0.005	0.17 0.002	0.53	0.05 0.01	0.06 0.00	0.18	0.12 0.01	0.18 0.00		
6304	0.022	0.32 0.005	0.13 0.002	0.12	-2.18 -0.39	0.07 0.00	0.04	-2.54 -0.13	0.35 0.00		
6306	0.010	-0.46 -0.007	0.31 0.004	0.42	-0.56 -0.10	1.07 0.03	0.13	-0.79 -0.04	1.31 0.01		
6327	0.010	-0.47 -0.007	0.00 0.000	0.51	-0.05 -0.01	0.69 0.02	0.17	-0.12 -0.01	1.36 0.01		
6330	0.037	1.24 0.019	2.37 0.029	0.54	0.15 0.03	2.03 0.06	0.18	0.20 0.01	0.68 0.01		
6335	0.037	1.24 0.019	0.47 0.006	0.71	1.06 0.19	0.51 0.02	0.19	0.27 0.01	1.36 0.01		
Grand Median		0.017			0.52			0.17			
Median Abs Dev		0.007			0.06			0.01			
Avg Within Lab SD		0.012			0.03			0.01			
Labs Included		6			6			6			
Labs Reporting		6			6			6			

ALP Program - Participant Web Summary Report - Cycle 07



SRW0807

Sample Mean Z Score k Score
Difference W/L STD

SRW0808

Sample Mean Z Score k Score
Difference W/L STD

SRW0809

Sample Mean Z Score k Score
Difference W/L STD

SO4 (315)			in the Anions Property Groups						Data units: mmolc/L			
6278	0.11	0.04	0.07	32.4	0.00	0.66	11.2	0.22	0.72			
		0.00	0.00		0.0	0.7		0.7	0.2			
6304	0.01	-2.06	0.04	13.2	-1.81	0.14	5.7	-1.47	0.07			
		-0.10	0.00		-19.3	0.2		-4.8	0.0			
6306	0.11	0.06	1.98	16.5	-1.50	0.11	5.4	-1.57	0.13			
		0.00	0.05		-16.0	0.1		-5.1	0.0			
6327	0.08	-0.49	0.25	33.8	0.13	0.63	10.5	0.00	0.39			
		-0.02	0.01		1.4	0.7		0.0	0.1			
6330	0.18	1.58	1.70	36.4	0.37	2.36	12.1	0.51	2.48			
		0.07	0.04		3.9	2.5		1.7	0.7			
6335	0.08	-0.49	0.25	25.3	-0.67	0.74	8.8	-0.52	0.23			
		-0.02	0.01		-7.2	0.8		-1.7	0.1			
6620	0.11	0.00	0.20	34.9	0.23	0.14	11.9	0.44	0.33			
		0.00	0.00		2.4	0.2		1.4	0.1			
Grand Median		0.11		32.4			10.5					
Median Abs Dev		0.02		3.9			1.7					
Avg Within Lab SD		0.02		1.1			0.3					
Labs Included		7		7			7					
Labs Reporting		7		7			7					

Sum Anions (316)			in the Anions Property Groups						Data units: mmolc/L			
6278	1.16	0.01		46.9	0.00		16.2	0.00				
		0.00			0.0			0.0				
6306	1.15	0.00	0.97	48.2	0.37	0.81	16.2	0.02	0.07			
		0.00	0.09		1.3	1.0		0.0	0.0			
6327	0.97	-0.89	0.00	46.6	-0.08	0.58	15.3	-0.74	0.18			
		-0.18	0.00		-0.3	0.7		-0.9	0.1			
6330	1.25	0.45	1.69	49.8	0.84	1.60	17.4	0.90	1.98			
		0.09	0.16		3.0	1.9		1.2	1.0			
6335	0.74	-2.03	0.44	39.6	-2.08	0.67	14.0	-1.72	0.21			
		-0.42	0.04		-7.3	0.8		-2.2	0.1			
Grand Median		1.15		46.9			16.2					
Median Abs Dev		0.09		1.3			0.9					
Avg Within Lab SD		0.09		1.2			0.5					
Labs Included		5		5			5					
Labs Reporting		5		5			5					

ALP Program - Participant Web Summary Report - Cycle 07



SRW0807

Sample Mean Z Score k Score
Difference W/L STD

SRW0808

Sample Mean Z Score k Score
Difference W/L STD

SRW0809

Sample Mean Z Score k Score
Difference W/L STD

Cation-Anion Difference (317)

Data units:

6278	-0.03	-0.87		-2.01	-0.64		0.34	-0.22	
		-0.20			-3.68			-0.11	
6306	0.12	-0.23	0.78	3.54	0.33	0.41	0.54	0.19	0.43
		-0.05	0.08		1.87	0.60		0.10	0.32
6330	0.49	1.36	1.47	-0.20	-0.33	1.65	0.35	-0.19	1.67
		0.32	0.15		-1.87	2.42		-0.10	1.25
6335	0.22	0.23	0.48	9.68	1.40	0.34	1.48	2.09	0.15
		0.05	0.05		8.02	0.49		1.04	0.11
Grand Median		0.17		1.67		0.45			
Median Abs Dev		0.13		2.77		0.10			
Avg Within Lab SD		0.10		1.47		0.75			
Labs Included		4		4		4			
Labs Reporting		4		4		4			

Boron (318)

Data units: mg/L

6278	0.020	0.05	0.00	0.94	1.32	0.30	0.29	0.96	0.54
		0.001	0.000		0.15	0.01		0.02	0.02
6304	0.007	-0.43	0.06	0.79	-0.06	0.17	0.27	0.27	0.11
		-0.011	0.001		-0.01	0.01		0.01	0.00
6306	0.083	2.43	2.55	0.55	-2.20	0.01	0.32	2.25	2.18
		0.064	0.024		-0.25	0.00		0.05	0.07
6327	0.004	-0.55	0.08	0.77	-0.25	2.47	0.25	-0.83	1.56
		-0.015	0.001		-0.03	0.08		-0.02	0.05
6330				0.86	0.57	1.05	0.26	-0.22	0.18
					0.06	0.04		-0.01	0.01
6335	0.010	-0.33	0.00	0.80	0.06	0.30	0.27	0.07	0.31
		-0.009	0.000		0.01	0.01		0.00	0.01
6620	0.019	0.00	0.37	0.75	-0.37	0.69	0.25	-0.72	0.60
		0.000	0.004		-0.04	0.02		-0.02	0.02
6626	0.043	0.93	0.60	0.86	0.57	0.34	0.27	-0.07	0.18
		0.025	0.006		0.06	0.01		0.00	0.01
Grand Median		0.019		0.79		0.27			
Median Abs Dev		0.011		0.05		0.01			
Avg Within Lab SD		0.010		0.03		0.03			
Labs Included		7		8		8			
Labs Reporting		7		8		8			

ALP Program - Participant Web Summary Report - Cycle 07



SRW0807

Sample Mean Z Score k Score
Difference W/L STD

SRW0808

Sample Mean Z Score k Score
Difference W/L STD

SRW0809

Sample Mean Z Score k Score
Difference W/L STD

PO4-P Phosphorus - Spec (319)

Data units: mg/L

6278			0.050		0.030
6306	0.03		0.191		0.080
6330	0.19		0.010		0.010

Grand Median	0.11		0.050		0.027
Median Abs Dev	0.08		0.040		0.017
Avg Within Lab SD					
Labs Included	2		3		3
Labs Reporting	2		3		3

Phosphorus - ICP (Total) (320)

Data units: mg/L

6304	0.15		0.15		0.43
6322	6.00		648.00		389.67
6330	0.06		0.01		0.01

Grand Median	0.15		0.15		0.43
Median Abs Dev	0.09		0.14		0.42
Avg Within Lab SD					
Labs Included	3		3		3
Labs Reporting	3		3		3

Nitrogen Combustion (Total) (322)

Data units: mg/L

6304	0.001		0.001		0.001
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Grand Median	0.001		0.001		0.001
Median Abs Dev					
Avg Within Lab SD					
Labs Included	1		1		1
Labs Reporting	1		1		1

ALP Program - Participant Web Summary Report - Cycle 07



SRW0807

Sample Mean	Z Score	k Score
Difference	W/L	STD

SRW0808

Sample Mean	Z Score	k Score
Difference	W/L	STD

SRW0809

Sample Mean	Z Score	k Score
Difference	W/L	STD

Total Organic Carbon (323)

Data units: mg/L

6327	6.50	5.50	6.50
Grand Median	6.50	5.50	6.50
Median Abs Dev			
Avg Within Lab SD			
Labs Included	1	1	1
Labs Reporting	1	1	1



ALP Program - Participant Web Summary Report - Cycle 07

SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
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 Environmental Properties

Ag (401) Data units: mg/kg

6327	0.082			0.035			0.061			0.16			0.044		
Grand Median	0.082			0.035			0.061			0.16			0.044		
Median Abs Dev															
Avg Within Lab SD										0.00			0.000		
Labs Included	1			1			1			1			1		
Labs Reporting	1			1			1			1			1		

Al (402) Data units: mg/kg

6327	14,326.7	1.04	1.60	4,494.0	0.40	1.70	13,288.0	1.17	1.83	17,757.3	1.50	1.71	8,122.1	1.50	1.64
	2,239.7	1,702.5		216.8	541.4		2,460.2	2,313.0		3,757.3	2,819.6		8,122.1	1,394.5	1,013.9
6407	13,000.0	0.43		4,400.0	0.22	0.83	11,666.7	0.40	0.46	14,666.7	0.27	0.35	6,866.7	0.15	0.89
	913.0			122.8	264.6		838.8	577.4		666.7	577.4		6,866.7	139.1	550.8
6409	10,366.7	-0.80	1.03	3,266.7	-1.85	0.65	9,300.0	-0.73	0.52	13,333.3	-0.27	0.93	5,900.0	-0.89	0.71
	-1,720.3	1,097.0		-1,010.6	208.2		-1,527.8	655.7		-666.7	1,527.5		5,900.0	-827.6	435.9
6649	11,173.9	-0.43	0.60	4,154.5	-0.22	0.10	9,989.0	-0.40	0.41	12,310.2	-0.67	0.32	6,588.5	-0.15	0.08
	-913.0	642.2		-122.8	30.8		-838.8	516.1		-1,689.8	535.0		6,588.5	-139.1	47.1
Grand Median	12,087.0			4,277.2			10,827.8			14,000.0			6,727.6		
Median Abs Dev	1,316.7			169.8			1,183.3			1,178.2			483.3		
Avg Within Lab SD	1,062.3			319.1			1,262.9			1,651.0			617.1		
Labs Included	4			4			4			4			4		
Labs Reporting	4			4			4			4			4		

As (403) Data units: mg/kg

6327	4.79	-0.11		1.77	-0.30		2.33	-0.33		2.36	0.07		1.78	-0.23	
		-0.11		-0.14			-0.21			0.04			1.78	-0.11	
6407	5.00	0.11		1.67	-0.52	1.21	2.00	-0.83		2.00	-0.62		2.00	0.23	
		0.11		-0.25	0.58		-0.54			-0.32			2.00	0.11	
6409	7.00	2.21	1.38	2.67	1.58	1.21	3.33	1.21	1.07	3.33	1.94	1.38	2.67	1.64	1.40
		2.11	1.00		0.75	0.58		0.79	0.58		1.01	0.58		0.78	0.58
		-0.27	0.29		0.30	0.29		0.33	0.93		-0.07	0.30		-0.59	0.18
6649	4.64	-0.25	0.21	2.06	0.14	0.14	2.75	0.21	0.50	2.29	-0.04	0.13	1.61	-0.28	0.08



ALP Program - Participant Web Summary Report - Cycle 07

	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
Grand Median	4.90			1.91			2.54			2.32			1.89		
Median Abs Dev	0.18			0.20			0.38			0.18			0.20		
Avg Within Lab SD	0.72			0.48			0.54			0.42			0.41		
Labs Included	4			4			4			4			4		
Labs Reporting	4			4			4			4			4		

Ba (404)															Data units: mg/kg		
6327	165.6	0.51	0.43	70.9	0.21	0.54	114.4	0.04	0.69	172.2	0.33	0.40	79.9	0.43	0.39		
		4.0	5.6		1.0	2.4		0.5	6.1		6.1	7.9		4.1	3.3		
6407	160.0	-0.21	0.77	69.0	-0.21	0.82	113.3	-0.04	0.66	160.0	-0.33		71.7	-0.43	0.88		
		-1.7	10.0		-1.0	3.6		-0.5	5.8		-6.1			-4.1	7.6		
6409	163.3	0.21	1.60	76.3	1.40	1.65	136.7	1.66	1.74	190.0	1.29	1.84	88.7	1.35	1.72		
		1.7	20.8		6.4	7.2		22.8	15.3		23.9	36.1		12.9	14.7		
6649	147.8	-1.76	0.81	66.0	-0.87	0.56	100.8	-0.96	0.22	152.2	-0.75	0.67	71.1	-0.49	0.32		
		-13.8	10.6		-4.0	2.4		-13.1	1.9		-14.0	13.1		-4.7	2.7		
Grand Median	161.7			70.0			113.9			166.1			75.8				
Median Abs Dev	2.8			2.5			6.8			10.0			4.4				
Avg Within Lab SD	13.0			4.4			8.8			19.6			8.6				
Labs Included	4			4			4			4			4				
Labs Reporting	4			4			4			4			4				

Be (405)															Data units: mg/kg		
6327	0.73	0.62	0.74	0.30			0.87			1.00	0.45	0.57	0.39				
		0.07	0.04								0.07	0.06					
6407	0.50	-1.45								0.70	-1.35	0.00					
		-0.16									-0.22	0.00					
6409	0.70	0.32	1.74				0.53			1.00	0.46	1.84	0.47				
		0.04	0.10								0.08	0.20					
6649	0.63	-0.32	0.65	0.26			0.47			0.85	-0.45	0.54	0.40				
		-0.04	0.04								-0.07	0.06					
Grand Median	0.66			0.28			0.53			0.92			0.40				
Median Abs Dev	0.05			0.02			0.06			0.08			0.01				
Avg Within Lab SD	0.06			0.01			0.05			0.11			0.04				
Labs Included	4			2			3			4			3				
Labs Reporting	4			2			3			4			3				



ALP Program - Participant Web Summary Report - Cycle 07

ALP Program - Participant Web Summary Report - Cycle 07																				
SRS0811				SRS0812				SRS0813				SRS0814				SRS0815				
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	Sample Mean	Z Score	k Score	Difference W/L STD					
Bi (406)															Data units: mg/kg					
6327				0.16				0.056				0.11				0.27				0.088
Grand Median		0.16		Median Abs Dev		0.056		Avg Within Lab SD		0.11		Median Abs Dev		0.27		Avg Within Lab SD		0.088		
Labs Included		1		Labs Included		1		Labs Included		1		Labs Included		1		Labs Included		1		
Labs Reporting		1		Labs Reporting		1		Labs Reporting		1		Labs Reporting		1		Labs Reporting		1		
B (407)															Data units: mg/kg					
6407				4.67				2.00				5.67				12.3				3.00
6409				3.00							4.33				16.3				3.33	
Grand Median		3.83		Median Abs Dev		2.00		Avg Within Lab SD		5.00		Median Abs Dev		14.3		Avg Within Lab SD		3.17		
Labs Included		2		Labs Included		1		Labs Included		2		Labs Included		2		Labs Included		2		
Labs Reporting		2		Labs Reporting		1		Labs Reporting		2		Labs Reporting		2		Labs Reporting		2		
Ca (408)															Data units: mg/kg					
6327				2,908.0				1,394.5				5,364.7				7,030.0				7,353.4
6407				2,900.0				1,433.3				4,766.7				7,033.3				6,866.7
6409				3,033.3				1,433.3				5,200.0				7,900.0				7,700.0
Grand Median		2,908.0		Median Abs Dev		1,433.3		Avg Within Lab SD		5,200.0		Median Abs Dev		7,033.3		Avg Within Lab SD		7,353.4		
Labs Included		3		Labs Included		3		Labs Included		3		Labs Included		3		Labs Included		3		
Labs Reporting		3		Labs Reporting		3		Labs Reporting		3		Labs Reporting		3		Labs Reporting		3		
Cd (409)															Data units: mg/kg					

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6327	0.63	0.53	0.75	0.30	0.40	1.35	0.35	0.17	0.87	0.66	0.44	1.38	0.42	0.25	0.38
6407	0.40	0.12	0.04	0.10	0.10	0.05	0.30	0.03	0.03	0.60	0.03	0.11	0.27	0.03	0.02
6409	0.33	-0.53	0.00	0.10	-0.40	0.00	0.30	-0.17	0.00	0.60	-0.44	0.00	0.27	-1.20	1.31
6649	0.69	-0.12	0.00	0.10	-0.10	0.00	0.20	-0.03	0.00	0.57	-0.03	0.00	0.37	-0.13	0.06
		-0.84	0.97	0.10	-0.40	0.00	0.20	-0.81	0.00	0.57	-0.90	1.44	0.37	-0.25	1.31
		-0.18	0.06	0.10	-0.10	0.00	0.20	-0.13	0.00	0.57	-0.07	0.12	0.37	-0.03	0.06
		0.79	1.58	0.58	1.51	1.47	0.57	1.56	1.80	0.70	0.92	0.10	0.50	1.00	0.66
		0.17	0.09	0.58	0.38	0.06	0.57	0.24	0.06	0.70	0.07	0.01	0.50	0.10	0.03
Grand Median		0.52			0.20			0.33			0.63			0.39	
Median Abs Dev		0.14			0.10			0.08			0.05			0.07	
Avg Within Lab SD		0.06			0.04			0.03			0.08			0.04	
Labs Included		4			4			4			4			4	
Labs Reporting		4			4			4			4			4	

Co (410)															
Data units: mg/kg															
6327	7.89	0.91	0.86	3.88	-0.93	0.34	8.60	0.82	1.00	5.91	1.68	1.05	3.39	-0.20	0.04
6407	7.00	0.46	0.29	4.00	-0.24	0.10	7.33	0.93	0.70	5.00	0.62	0.37	2.67	-0.11	0.02
6409	7.67	-0.83		4.00	-0.48		7.33	-0.29	0.83	5.00	-0.78		2.67	-1.44	1.42
6649	7.18	-0.42	1.71	4.33	0.81	1.97	8.00	0.29	1.43	5.33	0.12	1.65	4.00	0.86	
		0.48	0.58	4.33	0.21	0.58	8.00	0.33	1.00	5.33	0.04	0.58	4.00	0.50	
		-0.48	0.58	4.25	0.48	0.10	6.19	-1.29	0.50	5.24	-0.12	0.43	3.61	0.20	1.41
		-0.24	0.19	4.25	0.12	0.03	6.19	-1.47	0.35	5.24	-0.04	0.15	3.61	0.11	0.57
Grand Median		7.42			4.12			7.67			5.29			3.50	
Median Abs Dev		0.33			0.17			0.63			0.17			0.31	
Avg Within Lab SD		0.34			0.29			0.70			0.35			0.41	
Labs Included		4			4			4			4			4	
Labs Reporting		4			4			4			4			4	

Cr (411)															
Data units: mg/kg															
6327	19.4	1.67	1.55	7.51	1.70	1.49	25.2	0.90	1.48	14.1	1.99	1.63	13.8	0.95	1.17
6407	15.7	4.4	1.5	5.67	1.22	0.91	20.0	4.2	3.2	10.7	3.4	1.9	11.3	1.8	1.4
6409	14.3	0.25	0.60	5.67	-0.87	0.94	20.0	-0.21	0.47	10.7	0.00	0.48	11.3	-0.35	0.97
6649	13.6	0.7	0.6	6.33	-0.62	0.58	22.0	-1.0	1.0	10.7	0.0	0.6	12.7	-0.7	1.2
		-0.25	0.60	6.33	0.06	0.94	22.0	0.21	1.23	10.7	0.00	0.97	12.7	0.35	1.28
		-0.7	0.6	6.33	0.04	0.58	22.0	1.0	2.6	10.7	0.0	1.2	12.7	0.7	1.5
		-0.52	0.93	6.24	-0.06	0.01	14.5	-1.38	0.29	9.5	-0.71	0.43	10.0	-1.04	0.21
		-1.4	0.9	6.24	-0.04	0.00	14.5	-6.5	0.6	9.5	-1.2	0.5	10.0	-2.0	0.3

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	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	15.0			6.29			21.0			10.7			12.0		
Median Abs Dev	1.0			0.33			2.6			0.6			1.2		
Avg Within Lab SD	1.0			0.61			2.1			1.2			1.2		
Labs Included	4			4			4			4			4		
Labs Reporting	4			4			4			4			4		

Cu (412)															Data units: mg/kg		
6327	15.5	1.54	1.19		5.65			17.8	1.62	1.15		18.2	0.44	0.54	9.72	0.03	0.83
		1.9	1.2						1.5	1.7			0.6	1.1		0.03	0.74
6407	12.7	-0.75	0.55				15.3	-1.07	0.77		15.7	-1.26	0.27	7.67	-1.92	0.64	
		-0.9	0.6					-1.0	1.2			-1.9	0.6		-2.03	0.58	
6409	13.3	-0.20	1.46				16.3	0.00	1.38		18.3	0.56	1.90	9.67	-0.03	1.70	
		-0.2	1.5					0.0	2.1			0.8	4.0		-0.03	1.53	
6649	13.8	0.20	0.37		5.91		16.3	0.00	0.41		16.9	-0.44	0.13	10.46	0.73	0.11	
		0.2	0.4					0.0	0.6			-0.6	0.3		0.77	0.10	
Grand Median	13.6			5.78			16.3			17.5			9.69				
Median Abs Dev	0.6			0.13			0.5			0.7			0.40				
Avg Within Lab SD	1.0			0.98			1.5			2.1			0.90				
Labs Included	4			2			4			4			4				
Labs Reporting	4			2			4			4			4				

Fe (413)															Data units: mg/kg		
6327	15,598.7	0.77	1.04		6,450.9	1.54	1.29	16,824.0	0.91	1.36		14,552.0	1.18	1.16	6,357.8	-1.10	1.97
		1,265.3	782.9			734.2	434.9		3,157.3	1,703.4			2,052.0	1,309.7		-872.3	5,500.9
6407	14,000.0	-0.20			5,900.0	0.38	1.29	15,000.0	0.38	0.80		12,666.7	0.10	0.51	7,700.0	0.59	0.24
		-333.3				183.3	435.9		1,333.3	1,000.0			166.7	577.4		469.9	655.7
6409	14,666.7	0.20	0.76		5,533.3	-0.38	0.62	12,333.3	-0.38	1.22		12,333.3	-0.10	1.36	7,633.3	0.51	0.20
		333.3	577.4			-183.3	208.2		-1,333.3	1,527.5			-166.7	1,527.5		403.2	550.8
6649	11,812.7	-1.53	1.53		5,527.7	-0.40	0.53	10,123.6	-1.02	0.04		10,176.9	-1.33	0.74	6,826.9	-0.51	0.13
		-2,520.6	1,154.6			-189.0	180.2		-3,543.0	45.7			-2,323.1	829.8		-403.2	355.0
Grand Median	14,333.3			5,716.7				13,666.7			12,500.0			7,230.1			
Median Abs Dev	799.3			186.2				2,245.3			1,109.3			436.5			
Avg Within Lab SD	754.9			337.2				1,248.7			1,125.9			2,789.2			
Labs Included	4			4				4			4			4			
Labs Reporting	4			4				4			4			4			



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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
K (414)															
	Data units: mg/kg														
6327	2,090.7			577.6			2,631.4			5,084.5			868.7		
6407	1,833.3			486.7			2,166.7			4,400.0			690.0		
6409	1,600.0			446.7			2,300.0			4,433.3			636.7		
Grand Median	1,833.3			486.7			2,300.0			4,433.3			690.0		
Median Abs Dev	233.3			40.0			133.3			33.3			53.3		
Avg Within Lab SD										388.7			66.0		
Labs Included	3			3			3			3			3		
Labs Reporting	3			3			3			3			3		
Li (415)															
	Data units: mg/kg														
6327	9.73			2.54			9.13			16.4			4.85		
6407										15.3					
6409										14.3					
Grand Median	9.73			2.54			9.13			15.3			4.85		
Median Abs Dev										1.0					
Avg Within Lab SD										1.6			0.89		
Labs Included	1			1			1			3			1		
Labs Reporting	1			1			1			3			1		
Mg (416)															
	Data units: mg/kg														
6327	3,115.5			872.3			3,500.4			6,545.5			2,188.1		
6407	2,933.3			860.0			3,100.0			6,100.0			1,966.7		
6409	2,666.7			783.3			3,133.3			5,966.7			1,933.3		

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
Grand Median	2,933.3			860.0			3,133.3			6,100.0			1,966.7		
Median Abs Dev	182.2			12.3			33.3			133.3			33.3		
Avg Within Lab SD										509.3			148.5		
Labs Included	3			3			3			3			3		
Labs Reporting	3			3			3			3			3		

Mn (417)															Data units: mg/kg	
6327	447.6	-0.42	0.78	559.4	-0.76	0.46	389.6	0.94	1.46	411.0	0.17	1.01	204.3	-0.52	0.39	
		-6.8	14.7		-40.6	11.2		19.6	29.4		2.0	24.0		-9.5	8.1	
6407	433.3	-1.30	0.30	573.3	-0.50	1.68	360.0	-0.48	0.86	390.0	-1.68	0.84	193.3	-1.12	0.99	
		-21.1	5.8		-26.7	40.4		-10.0	17.3		-19.0	20.0		-20.5	20.8	
6409	463.3	0.55	1.33	626.7	0.50	0.63	380.0	0.48	0.99	416.7	0.67	1.28	223.3	0.52	1.67	
		8.9	25.2		26.7	15.3		10.0	20.0		7.6	30.6		9.5	35.1	
6649	461.2	0.42	1.24	650.5	0.94	0.75	353.5	-0.79	0.38	407.1	-0.17	0.80	223.6	0.54	0.25	
		6.8	23.6		50.5	18.1		-16.5	7.7		-2.0	19.1		9.8	5.2	
Grand Median	454.4			600.0			370.0			409.0			213.8			
Median Abs Dev	7.9			33.6			13.2			4.8			9.7			
Avg Within Lab SD	19.0			24.1			20.1			23.9			21.0			
Labs Included	4			4			4			4			4			
Labs Reporting	4			4			4			4			4			

Mo (418)															Data units: mg/kg	
6327	0.89	0.11		0.31			1.17	0.13		0.56			0.58	0.45		
		0.03						0.05						0.10		
6407	0.90	0.13	1.10				1.20	0.20	1.49				0.40	-0.38		
		0.04	0.10					0.08	0.10					-0.08		
6409	0.83	-0.11	1.27				1.07	-0.13	0.86				0.57	0.38	1.38	
		-0.03	0.12					-0.05	0.06		0.40			0.08	0.12	
6649	0.23	-2.34	0.41	0.16			0.19	-2.25	0.23				0.16	-1.48	0.29	
		-0.64	0.04					-0.93	0.02		0.07			-0.32	0.02	
Grand Median	0.86			0.24			1.12			0.40			0.48			
Median Abs Dev	0.03			0.08			0.07			0.16			0.09			
Avg Within Lab SD	0.09			0.03			0.07			0.02			0.08			
Labs Included	4			2			4			3			4			
Labs Reporting	4			2			4			3			4			

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
Na (419)															
	Data units: mg/kg														
6327	56.3			20.3			400.9			981.1			21.9		
6407	55.0						366.7			926.7					
6409							330.0			1,026.7					
Grand Median	55.6			20.3			366.7			981.1			21.9		
Median Abs Dev	0.6						34.3			45.5					
Avg Within Lab SD										51.9			11.4		
Labs Included	2			1			3			3			1		
Labs Reporting	2			1			3			3			1		
Ni (420)															
	Data units: mg/kg														
6327	18.2	-0.40	0.35	5.11	-1.16	0.40	15.7	-0.09	0.93	8.44	-1.14	1.12	9.63	0.02	0.64
		-0.2	0.3		-0.32	0.17		-0.1	1.3		-0.69	0.62		0.01	0.65
6407	19.3	1.48	1.24	5.67	0.85	1.39	16.0	0.09	0.73	9.67	0.88	1.04	9.33	-0.38	1.14
		0.9	1.2		0.24	0.58		0.1	1.0		0.54	0.58		-0.28	1.15
6409	18.7	0.40	1.24	5.33	-0.34	1.39	16.7	0.48	1.51	9.33	0.34	1.04	11.33	2.29	1.51
		0.2	1.2		-0.10	0.58		0.8	2.1		0.20	0.58		1.72	1.53
6649	18.2	-0.42	0.89	5.52	0.34	0.03	12.4	-2.04	0.57	8.93	-0.34	0.76	9.60	-0.02	0.09
		-0.3	0.8		0.10	0.01		-3.5	0.8		-0.20	0.42		-0.01	0.10
Grand Median	18.4			5.43			15.9			9.13			9.62		
Median Abs Dev	0.3			0.17			0.5			0.37			0.15		
Avg Within Lab SD	0.9			0.42			1.4			0.55			1.01		
Labs Included	4			4			4			4			4		
Labs Reporting	4			4			4			4			4		
P (421)															
	Data units: mg/kg														
6327	356.7	-0.61	0.68	219.9	-0.47	0.72	419.0	-0.78	0.79	789.4	-0.47	0.88	478.9	-0.12	0.63
		-20.0	11.9		-11.8	13.1		-6.0	24.0		-32.0	35.4		-7.2	10.5
6407	386.7	0.31	1.43	243.3	0.46	1.58	420.0	-0.64	1.51	766.7	-0.81	0.51	473.3	-0.22	1.39
		10.0	25.2		11.7	28.9		-5.0	45.8		-54.7	20.8		-12.8	23.1
6409	366.7	-0.31	0.87	220.0	-0.46	0.55	430.0	0.64	0.99	853.3	0.47	1.68	493.3	0.12	1.25
		-10.0	15.3		-11.7	10.0		5.0	30.0		32.0	68.1		7.2	20.8
6649	425.0	1.48	0.85	265.0	1.31	0.82	430.0	0.64	0.33	885.0	0.94	0.37	615.0	2.23	0.30
		48.3	15.0		33.3	15.0		5.0	10.0		63.6	15.0		128.9	5.0



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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
Grand Median		376.7			231.7			425.0			821.4			486.1	
Median Abs Dev		15.0			11.7			5.0			43.3			10.0	
Avg Within Lab SD		17.6			18.2			30.3			40.5			16.6	
Labs Included		4			4			4			4			4	
Labs Reporting		4			4			4			4			4	

Pb (422)															
Data units: mg/kg															
6327	11.7	0.59	1.64	7.18	0.14	1.54	7.50	0.18	1.76	17.0	0.09	0.17	9.95	0.36	1.35
		0.7	1.9		0.09	1.39		0.13	1.55		0.2	0.4		0.64	1.08
6407	10.7	-0.30	0.49	7.00	-0.14		7.00	-0.52		16.7	-0.09	0.26	8.67	-0.36	0.72
		-0.3	0.6		-0.09			-0.37			-0.2	0.6		-0.64	0.58
6409	11.3	0.30	0.98	8.33	1.92	1.28	8.70	1.81	0.65	19.0	1.26	1.94	12.00	1.51	1.25
		0.3	1.2		1.24	1.15		1.30	0.58		2.2	4.4		2.69	1.00
6649	9.4	-1.49	0.33	6.77	-0.50	0.08	7.20	-0.18	0.69	14.7	-1.25	0.35	8.49	-0.46	0.28
		-1.6	0.4		-0.32	0.08		-0.13	0.61		-2.2	0.8		-0.82	0.22
Grand Median		11.0			7.09			7.37			16.8			9.31	
Median Abs Dev		0.5			0.21			0.25			1.2			0.73	
Avg Within Lab SD		1.2			0.90			0.88			2.2			0.80	
Labs Included		4			4			4			4			4	
Labs Reporting		4			4			4			4			4	

S (423)															
Data units: mg/kg															
6327	168.9			98.9			131.5			814.4			286.9		
6407	143.3			76.7			102.3			750.0			230.0		
6409	163.3			82.7			133.3			870.0			270.0		
Grand Median		163.3			82.7			131.5			814.4			270.0	
Median Abs Dev		5.6			6.0			1.9			55.6			16.9	
Avg Within Lab SD											28.8			16.9	
Labs Included		3			3			3			3			3	
Labs Reporting		3			3			3			3			3	

Sb (424)														
Data units: mg/kg														



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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6327	0.59			0.119			0.31			0.37			0.19		
6649	0.01			0.006			0.01			0.00			0.01		
Grand Median		0.30			0.063			0.16			0.19			0.10	
Median Abs Dev		0.29			0.056			0.15			0.18			0.09	
Avg Within Lab SD											0.00			0.00	
Labs Included		2			2			2			2			2	
Labs Reporting		2			2			2			2			2	

Se (425)													Data units: mg/kg		
6327	0.26			0.28			0.090			0.33	-1.11		0.36		
6407										0.60	-0.21		0.60		
6409										0.70	0.35				
6649	0.28			0.16			0.020			0.47	0.06	1.00	0.34		
											0.16				
											-0.35				
											-0.06	0.01			
Grand Median		0.27			0.22			0.057			0.54			0.36	
Median Abs Dev		0.01			0.06			0.033			0.11			0.02	
Avg Within Lab SD											0.01			0.00	
Labs Included		2			2			2			4			3	
Labs Reporting		2			2			2			4			3	

Sn (426)													Data units: mg/kg		
6327	0.62			0.22			0.51			0.95			0.45		
Grand Median		0.62			0.22			0.51			0.95			0.45	
Median Abs Dev															
Avg Within Lab SD											0.00			0.00	
Labs Included		1			1			1			1			1	
Labs Reporting		1			1			1			1			1	

Sr (427)													Data units: mg/kg		
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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
6327	25.4			4.85			52.4			73.7			14.7		
6407	25.7						50.0			73.3			14.0		
6409	25.3						51.7			80.3			14.0		
Grand Median	25.4			4.85			51.7			73.7			14.0		
Median Abs Dev	0.1						0.8			0.3			0.0		
Avg Within Lab SD										4.8			1.0		
Labs Included	3			1			3			3			3		
Labs Reporting	3			1			3			3			3		

V (428)															
Data units: mg/kg															
6327	34.3	1.06	1.62	13.1	0.71	1.28	48.2	0.82	1.42	26.4	1.10	1.69	19.9	0.72	1.45
		8.6	4.0		0.9	1.0		10.8	5.6		8.0	2.6		3.2	2.2
6407	26.7	0.12	0.93	12.3	0.12	0.76	40.0	0.20	0.67	17.3	-0.14	0.38	15.3	-0.30	0.77
		1.0	2.3		0.2	0.6		2.7	2.6		-1.0	0.6		-1.3	1.2
6409	24.7	-0.12	0.61	12.0	-0.12	1.31	34.7	-0.20	1.16	19.3	0.14	1.01	18.0	0.30	1.15
		-1.0	1.5		-0.2	1.0		-2.7	4.6		1.0	1.5		1.3	1.7
6649	14.2	-1.40	0.39	9.8	-1.74	0.25	17.9	-1.47	0.41	8.7	-1.32	0.04	10.4	-1.39	0.00
		-11.4	1.0		-2.3	0.2		-19.4	1.6		-9.7	0.1		-6.2	0.0
Grand Median	25.7			12.2			37.3			18.3			16.7		
Median Abs Dev	4.8			0.6			6.8			4.5			2.3		
Avg Within Lab SD	2.5			0.8			4.0			1.5			1.5		
Labs Included	4			4			4			4			4		
Labs Reporting	4			4			4			4			4		

Zn (429)															
Data units: mg/kg															
6327	54.3	0.87	1.25	23.3	0.52	1.61	40.6	1.05	1.53	76.0	0.39	0.66	37.8	-0.01	0.48
		4.2	7.0		2.3	6.0		5.3	5.3		3.6	5.9		0.0	1.9
6407	43.0	-1.46	0.36	16.3	-1.04	0.15	31.7	-0.73	0.44	64.3	-0.86	0.17	29.0	-1.83	0.67
		-7.1	2.0		-4.7	0.6		-3.7	1.5		-8.0	1.5		-8.9	2.6
6409	51.0	0.19	0.81	18.7	-0.52	0.55	37.7	0.46	1.16	82.0	1.05	1.75	42.0	0.85	1.58
		0.9	4.6		-2.3	2.1		2.3	4.0		9.7	15.6		4.1	6.2
6649	49.2	-0.19	1.29	23.8	0.62	1.04	33.0	-0.46	0.32	68.7	-0.39	0.69	37.9	0.01	0.90
		-0.9	7.2		2.8	3.9		-2.3	1.1		-3.6	6.2		0.0	3.6

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	SRS0811			SRS0812			SRS0813			SRS0814			SRS0815		
	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD	Sample Mean	Z Score Difference	k Score W/L STD
Grand Median		50.1			21.0			35.3			72.3			37.9	
Median Abs Dev		2.6			2.6			3.0			5.8			2.1	
Avg Within Lab SD		5.6			3.8			3.5			8.9			3.9	
Labs Included		4			4			4			4			4	
Labs Reporting		4			4			4			4			4	

Hg (US-EPA 7470 or 7471) (430)													Data units: mg/kg		
6327	0.034			0.017			0.012			0.028			0.022		
6649	0.020			0.014			0.013			0.034			0.020		
Grand Median	0.027			0.016			0.012			0.031			0.021		
Median Abs Dev	0.007			0.001			0.000			0.003			0.001		
Avg Within Lab SD										0.004			0.010		
Labs Included	2			2			2			2			2		
Labs Reporting	2			2			2			2			2		

Homogeneity Evaluation Soil



SRS material homogeneity was evaluated based on soil test codes pH (1:1) H₂O, EC (1:1), NO₃-N, P Olsen, K Olsen, SOM based on analysis of 5 jars of each 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 SRB and SRW samples and all values were within acceptable limits.

Table 1. Homogeneity evaluation of SRS materials, ALP Fall 2008.

Sample	pH (1:1) H ₂ O		EC (1:1) (dSm ⁻¹)		Olsen P (mg kg ⁻¹)	
	Mean ¹	Std	Mean	Std	Mean	Std
SRS-0811	6.10	0.04	0.37	0.02	14.3	0.5
SRS-0812	6.87	0.05	0.15	0.01	7.6	0.5
SRS-0813	7.85	0.02	0.84	0.03	22.9	1.0
SRS-0814	7.90	0.001	2.63	0.08	15.7	0.9
SRS-0815	7.33	0.03	0.44	0.02	22.7	0.7

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

“EC precision across the five ALP soils indicates very high precision....”