

FORM 2 - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM90Initial Calibration Verification Source : MP83508Continuing Calibration Verification Source : MP83511Run Batch: LB134116 Analytical Method: ICP-AESConcentration Units: µg/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV004				ID: CCV033				ID: CCV034		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2500	2400	96	1	400000	400000	100	1	400000	100	0
Antimony	1000	960	96	0	5000	4900	99	0	4900	98	0
Arsenic	1000	1100	110	1	5000	5100	101	0	5100	102	0
Barium	520	510	99	0	10000	9900	99	1	10000	100	0
Beryllium	510	520	102	0	500	510	102	1	510	103	1
Cadmium	510	500	99	0	2500	2500	99	0	2400	98	0
Calcium	10000	10000	103	0	400000	400000	100	1	400000	100	0
Chromium	520	540	105	0	15500	16000	101	3	15000	98	0
Cobalt	520	510	98	0	2500	2400	96	0	2400	94	0
Copper	510	490	95	1	15000	15000	98	1	15000	97	0
Iron	10000	10000	105	0	400000	400000	101	1	410000	101	1
Lead	1000	970	97	0	25000	25000	98	0	24000	97	0
Magnesium	6000	6000	100	1	400000	400000	100	1	400000	100	0
Manganese	520	520	99	0	15000	15000	97	1	15000	97	0
Nickel	530	510	97	0	2500	2500	100	0	2500	98	0
Potassium	9900	9100	92	1	150000	150000	100	1	150000	100	0
Selenium	1000	1000	101	0	5000	5000	100	0	5000	99	0
Silver	250	240	97	0	1250	1300	103	3	1300	100	0
Sodium	10000	9500	95	0	400000	410000	103	1	410000	103	1
Thallium	1000	1000	100	1	5000	4800	96	0	4700	95	0
Vanadium	500	510	102	3	2500	2500	99	1	2500	98	1
Zinc	1000	980	98	1	15000	15000	100	3	15000	97	0

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV035				ID: CCV036		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					400000	410000	102	3	400000	101	0
Antimony					5000	5000	100	0	4900	98	0
Arsenic					5000	5100	101	0	5000	100	0
Barium					10000	10000	101	3	10000	100	0
Beryllium					500	510	103	3	510	102	1
Cadmium					2500	2500	99	0	2400	98	0
Calcium					400000	400000	101	3	400000	100	0
Chromium					15500	16000	100	0	15000	99	0
Cobalt					2500	2400	96	0	2400	94	0
Copper					15000	15000	99	3	15000	98	0
Iron					400000	410000	102	3	400000	101	0
Lead					25000	25000	99	0	24000	97	0
Magnesium					400000	400000	101	3	400000	100	0
Manganese					15000	15000	98	3	15000	97	0
Nickel					2500	2500	100	0	2500	98	0
Potassium					150000	150000	101	3	150000	101	0
Selenium					5000	5100	102	0	5000	100	0
Silver					1250	1300	103	0	1300	101	0
Sodium					400000	420000	106	4	410000	103	1
Thallium					5000	4800	97	0	4700	95	0
Vanadium					2500	2500	100	3	2500	98	1
Zinc					15000	15000	101	0	15000	99	1

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV037				ID: CCV038		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					400000	400000	100	2	420000	104	0
Antimony					5000	5000	99	0	5100	101	0
Arsenic					5000	5100	103	0	5200	104	0
Barium					10000	10000	100	2	10000	103	0
Beryllium					500	500	100	2	520	105	0
Cadmium					2500	2500	99	0	2500	101	0
Calcium					400000	400000	100	2	410000	103	0
Chromium					15500	15000	99	1	16000	102	0
Cobalt					2500	2400	96	0	2400	98	0
Copper					15000	15000	98	2	15000	101	0
Iron					400000	400000	100	2	410000	104	1
Lead					25000	25000	98	0	25000	100	0
Magnesium					400000	400000	99	2	410000	102	0
Manganese					15000	14000	96	2	15000	99	0
Nickel					2500	2500	100	0	2500	102	0
Potassium					150000	150000	100	2	150000	103	0
Selenium					5000	5100	101	0	5200	103	0
Silver					1250	1300	102	1	1300	104	0
Sodium					400000	400000	101	1	420000	105	0
Thallium					5000	4800	96	0	4900	97	0
Vanadium					2500	2400	97	2	2500	100	1
Zinc					15000	15000	100	1	15000	102	0

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV039				ID: CCV040		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					400000	420000	104	1	410000	103	1
Antimony					5000	5000	100	0	5000	100	0
Arsenic					5000	5200	104	0	5000	100	0
Barium					10000	10000	104	1	10000	102	1
Beryllium					500	540	107	1	520	104	1
Cadmium					2500	2500	100	0	2500	99	0
Calcium					400000	410000	102	1	400000	101	0
Chromium					15500	15000	99	0	15000	98	0
Cobalt					2500	2400	96	0	2400	95	0
Copper					15000	15000	100	1	15000	99	0
Iron					400000	410000	103	1	410000	102	1
Lead					25000	25000	99	0	24000	98	0
Magnesium					400000	410000	102	1	400000	100	0
Manganese					15000	15000	99	1	15000	98	0
Nickel					2500	2500	101	0	2500	99	0
Potassium					150000	150000	103	1	150000	101	0
Selenium					5000	5100	102	0	5100	101	0
Silver					1250	1300	102	0	1300	101	1
Sodium					400000	430000	108	1	420000	106	1
Thallium					5000	4800	96	0	4700	95	0
Vanadium					2500	2500	100	1	2500	99	0
Zinc					15000	15000	101	0	15000	100	1

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV041				ID: CCV042		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					400000	410000	103	0	410000	103	0
Antimony					5000	5000	101	1	5100	101	1
Arsenic					5000	5100	101	0	5100	102	1
Barium					10000	10000	104	0	10000	103	0
Beryllium					500	530	107	1	510	102	1
Cadmium					2500	2500	100	1	2500	100	0
Calcium					400000	410000	102	0	410000	101	0
Chromium					15500	15000	99	0	15000	99	0
Cobalt					2500	2400	96	1	2400	97	0
Copper					15000	15000	99	0	15000	99	0
Iron					400000	410000	102	0	410000	102	0
Lead					25000	25000	99	0	25000	99	0
Magnesium					400000	400000	101	0	400000	100	0
Manganese					15000	15000	99	0	15000	98	0
Nickel					2500	2500	101	1	2500	101	0
Potassium					150000	150000	102	0	150000	100	0
Selenium					5000	5100	102	1	5100	103	1
Silver					1250	1300	102	0	1300	101	0
Sodium					400000	430000	108	1	420000	105	1
Thallium					5000	4800	96	1	4800	96	0
Vanadium					2500	2500	100	0	2500	99	1
Zinc					15000	15000	101	0	15000	101	1

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV043				ID: CCV044		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					400000	410000	103	0	400000	101	2
Antimony					5000	5000	101	1	5000	99	0
Arsenic					5000	5000	101	1	5000	100	0
Barium					10000	10000	103	0	10000	102	1
Beryllium					500	510	102	1	510	102	2
Cadmium					2500	2500	99	0	2400	98	0
Calcium					400000	410000	101	0	400000	100	2
Chromium					15500	15000	99	0	15000	98	1
Cobalt					2500	2400	96	0	2400	95	0
Copper					15000	15000	99	0	14000	96	2
Iron					400000	400000	101	0	400000	100	2
Lead					25000	25000	98	0	24000	97	0
Magnesium					400000	400000	100	0	390000	99	2
Manganese					15000	15000	97	0	14000	96	1
Nickel					2500	2500	100	0	2500	99	0
Potassium					150000	150000	100	0	150000	98	1
Selenium					5000	5100	102	0	5000	100	0
Silver					1250	1300	101	0	1300	100	1
Sodium					400000	420000	104	1	420000	104	1
Thallium					5000	4800	96	0	4700	94	0
Vanadium					2500	2500	99	0	2400	97	2
Zinc					15000	15000	101	0	15000	100	1

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV045				ID: CCV046		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					400000	400000	99	0	400000	101	0
Antimony					5000	4800	97	0	4900	98	0
Arsenic					5000	4900	97	0	4900	99	0
Barium					10000	9900	99	0	10000	101	0
Beryllium					500	490	98	0	500	100	1
Cadmium					2500	2400	95	0	2400	97	0
Calcium					400000	390000	98	0	400000	99	0
Chromium					15500	15000	94	0	15000	96	0
Cobalt					2500	2300	92	0	2400	94	0
Copper					15000	14000	94	0	14000	95	0
Iron					400000	390000	97	0	390000	99	0
Lead					25000	23000	94	0	24000	96	0
Magnesium					400000	380000	96	0	390000	98	1
Manganese					15000	14000	94	0	14000	95	0
Nickel					2500	2400	96	0	2500	98	0
Potassium					150000	140000	95	0	150000	97	0
Selenium					5000	4900	98	0	5000	100	0
Silver					1250	1200	96	0	1200	98	0
Sodium					400000	400000	101	0	410000	104	1
Thallium					5000	4600	92	0	4700	93	0
Vanadium					2500	2400	95	1	2400	96	1
Zinc					15000	15000	98	1	15000	100	0

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV051				ID: CCV100				ID: CCV101		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2500	2400	96	0	400000	410000	102	1	410000	103	1
Antimony	1000	910	91	0	5000	4900	99	0	5000	101	0
Arsenic	1000	1100	108	1	5000	5000	100	0	5000	100	0
Barium	520	520	100	0	10000	10000	103	0	10000	103	0
Beryllium	510	530	104	1	500	520	103	0	520	104	1
Cadmium	510	500	98	0	2500	2500	100	0	2500	102	0
Calcium	10000	10000	102	1	400000	410000	104	0	410000	103	0
Chromium	520	550	106	0	15500	16000	102	0	16000	103	0
Cobalt	520	510	97	0	2500	2500	101	0	2600	103	0
Copper	510	500	97	4	15000	15000	103	0	16000	104	0
Iron	10000	10000	103	1	400000	410000	103	0	420000	104	0
Lead	1000	980	98	0	25000	25000	100	0	25000	101	0
Magnesium	6000	6200	104	2	400000	410000	103	0	420000	104	1
Manganese	520	540	103	1	15000	15000	103	1	16000	103	1
Nickel	530	520	97	0	2500	2500	101	0	2600	102	0
Potassium	9900	9200	93	2	150000	160000	105	0	160000	106	0
Selenium	1000	950	95	1	5000	5000	99	0	5000	100	1
Silver	250	250	99	1	1250	1300	102	0	1300	102	0
Sodium	10000	10000	104	1	400000	420000	104	0	420000	105	1
Thallium	1000	1000	100	1	5000	4900	98	0	5000	99	0
Vanadium	500	510	103	3	2500	2600	104	0	2600	104	1
Zinc	1000	950	95	0	15000	15000	100	0	15000	101	0

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV102				ID: CCV103		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					400000	430000	108	7	400000	101	1
Antimony					5000	5000	100	2	4900	98	0
Arsenic					5000	5000	100	0	4900	98	0
Barium					10000	11000	106	7	10000	101	0
Beryllium					500	540	108	6	510	103	1
Cadmium					2500	2500	101	2	2500	99	0
Calcium					400000	430000	107	7	410000	101	0
Chromium					15500	16000	101	1	15000	100	0
Cobalt					2500	2600	102	2	2500	100	0
Copper					15000	16000	108	7	15000	102	0
Iron					400000	430000	109	7	410000	101	1
Lead					25000	25000	101	2	25000	99	0
Magnesium					400000	430000	108	7	410000	102	1
Manganese					15000	16000	108	7	15000	101	1
Nickel					2500	2500	102	2	2500	100	0
Potassium					150000	160000	108	7	150000	103	1
Selenium					5000	5000	99	2	4900	98	0
Silver					1250	1300	101	1	1200	100	0
Sodium					400000	440000	110	6	420000	104	0
Thallium					5000	4900	98	2	4900	97	0
Vanadium					2500	2700	109	7	2500	101	1
Zinc					15000	15000	100	1	15000	98	0

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV104				ID:		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					400000	410000	102	1			
Antimony					5000	5000	100	0			
Arsenic					5000	5100	102	0			
Barium					10000	10000	104	0			
Beryllium					500	530	105	0			
Cadmium					2500	2500	102	0			
Calcium					400000	420000	104	1			
Chromium					15500	16000	102	1			
Cobalt					2500	2600	102	0			
Copper					15000	16000	104	1			
Iron					400000	410000	103	0			
Lead					25000	25000	101	0			
Magnesium					400000	410000	103	0			
Manganese					15000	15000	103	0			
Nickel					2500	2600	103	0			
Potassium					150000	160000	104	1			
Selenium					5000	5000	100	0			
Silver					1250	1300	102	0			
Sodium					400000	420000	105	1			
Thallium					5000	5000	99	0			
Vanadium					2500	2600	103	1			
Zinc					15000	15000	100	1			