

FORM 2 - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: 51716 MA No. : SDG No.: MC0PI1Initial Calibration Verification Source : MP83143Continuing Calibration Verification Source : MP83146Run Batch: LB133243 Analytical Method: ICP-AESConcentration Units: µg/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV001				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2500	2300	93	1	400000	400000	101	1	400000	101	0
Antimony	1000	1000	102	0	5000	4800	96	1	4800	96	0
Arsenic	1000	1100	107	1	5000	5100	102	0	5100	102	0
Barium	520	510	98	0	10000	10000	101	1	10000	101	0
Beryllium	510	530	104	0	500	520	103	1	520	105	1
Cadmium	510	500	98	0	2500	2500	99	0	2500	99	0
Calcium	10000	9900	99	0	400000	400000	99	1	400000	99	0
Chromium	520	550	106	0	15500	15000	96	0	15000	96	0
Cobalt	520	500	96	0	2500	2500	99	0	2500	99	0
Copper	510	480	94	1	15000	15000	98	1	15000	98	0
Iron	10000	11000	105	0	400000	400000	101	1	400000	101	1
Lead	1000	1000	100	0	25000	25000	98	0	25000	98	0
Magnesium	6000	5600	93	1	400000	390000	98	1	390000	98	0
Manganese	520	530	101	0	15000	15000	97	1	15000	98	0
Nickel	530	510	96	0	2500	2500	99	0	2500	99	0
Potassium	9900	9100	91	1	150000	150000	100	1	150000	101	0
Selenium	1000	1100	107	1	5000	4800	95	1	4700	95	0
Silver	250	240	95	1	1250	1300	101	0	1300	101	1
Sodium	10000	9600	96	2	400000	400000	100	1	400000	99	0
Thallium	1000	1100	106	0	5000	4800	95	1	4800	95	1
Vanadium	500	520	104	1	2500	2400	98	2	2400	97	0
Zinc	1000	1100	109	0	15000	14000	95	0	14000	96	0

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID: CCV004		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					400000	410000	102	0	410000	102	0
Antimony					5000	4900	98	0	4800	97	0
Arsenic					5000	5200	104	0	5100	102	0
Barium					10000	10000	103	0	10000	103	0
Beryllium					500	530	106	0	530	105	0
Cadmium					2500	2500	101	0	2500	99	0
Calcium					400000	400000	101	1	400000	100	0
Chromium					15500	15000	97	0	15000	97	0
Cobalt					2500	2500	101	0	2500	100	0
Copper					15000	15000	100	1	15000	99	0
Iron					400000	410000	102	0	410000	101	0
Lead					25000	25000	100	0	25000	99	0
Magnesium					400000	400000	99	1	390000	98	0
Manganese					15000	15000	98	0	15000	98	1
Nickel					2500	2500	101	0	2500	99	0
Potassium					150000	150000	102	0	150000	102	0
Selenium					5000	4800	97	0	4800	95	1
Silver					1250	1300	102	0	1300	102	0
Sodium					400000	400000	100	1	400000	101	0
Thallium					5000	4800	97	0	4800	96	0
Vanadium					2500	2500	98	1	2400	98	0
Zinc					15000	15000	97	0	14000	96	0

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV005				ID: CCV006		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					400000	410000	101	0	410000	102	0
Antimony					5000	4800	97	0	4900	99	0
Arsenic					5000	5200	104	0	5200	105	0
Barium					10000	10000	105	0	10000	104	0
Beryllium					500	520	103	1	530	106	0
Cadmium					2500	2500	100	0	2500	101	0
Calcium					400000	390000	98	0	400000	100	0
Chromium					15500	15000	98	0	15000	97	0
Cobalt					2500	2500	101	0	2500	101	0
Copper					15000	15000	100	0	15000	100	0
Iron					400000	400000	100	0	400000	101	0
Lead					25000	25000	100	0	25000	100	0
Magnesium					400000	390000	97	0	390000	98	0
Manganese					15000	15000	100	0	15000	98	0
Nickel					2500	2500	100	0	2500	101	0
Potassium					150000	150000	103	0	150000	103	0
Selenium					5000	4800	96	0	4900	98	0
Silver					1250	1300	100	0	1300	102	0
Sodium					400000	400000	100	0	400000	101	0
Thallium					5000	4900	98	0	4900	97	0
Vanadium					2500	2400	97	0	2400	98	0
Zinc					15000	15000	97	0	15000	97	1

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 Lab Code: ACE Case No.: 51716 MA No. : SDG No.: MC0PI1
 Initial Calibration Verification Source : MP83143
 Continuing Calibration Verification Source : MP83146
 Run Batch: LB133243 Analytical Method: ICP-AES
 Concentration Units: µg/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV007				ID:		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					400000	410000	102	1			
Antimony					5000	4800	97	0			
Arsenic					5000	5200	104	0			
Barium					10000	10000	103	1			
Beryllium					500	520	105	1			
Cadmium					2500	2500	100	0			
Calcium					400000	400000	99	1			
Chromium					15500	15000	97	0			
Cobalt					2500	2500	100	0			
Copper					15000	15000	99	1			
Iron					400000	400000	100	1			
Lead					25000	25000	100	0			
Magnesium					400000	390000	97	1			
Manganese					15000	15000	98	0			
Nickel					2500	2500	100	0			
Potassium					150000	160000	103	1			
Selenium					5000	4800	96	0			
Silver					1250	1300	100	0			
Sodium					400000	400000	101	1			
Thallium					5000	4900	98	0			
Vanadium					2500	2400	97	1			
Zinc					15000	15000	97	1			

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV010				ID: CCV064				ID: CCV065		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2500	2400	95	1	400000	410000	102	0	410000	101	0
Antimony	1000	930	93	1	5000	4800	95	0	4800	95	0
Arsenic	1000	930	93	1	5000	5000	101	0	5100	101	0
Barium	520	520	100	0	10000	10000	101	0	10000	101	0
Beryllium	510	520	103	0	500	500	100	1	490	99	1
Cadmium	510	510	100	0	2500	2500	100	0	2500	101	0
Calcium	10000	10000	102	0	400000	420000	104	0	410000	102	0
Chromium	520	560	108	0	15500	15000	98	0	15000	97	1
Cobalt	520	500	96	0	2500	2500	100	0	2500	100	0
Copper	510	490	96	1	15000	15000	100	0	15000	99	0
Iron	10000	11000	109	0	400000	420000	104	1	410000	104	0
Lead	1000	990	99	0	25000	25000	98	0	25000	99	0
Magnesium	6000	5500	91	2	400000	410000	103	0	410000	102	0
Manganese	520	540	103	0	15000	15000	99	0	15000	99	0
Nickel	530	510	97	0	2500	2500	99	0	2500	99	0
Potassium	9900	9000	91	1	150000	150000	103	0	150000	102	0
Selenium	1000	970	97	1	5000	4700	94	0	4700	94	0
Silver	250	240	95	0	1250	1200	99	0	1200	98	1
Sodium	10000	10000	103	2	400000	410000	103	0	410000	102	0
Thallium	1000	1100	108	1	5000	4800	96	0	4800	95	0
Vanadium	500	530	106	1	2500	2500	101	0	2500	99	0
Zinc	1000	940	94	0	15000	14000	96	0	14000	95	1

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV066				ID: CCV067		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					400000	410000	101	0	410000	102	0
Antimony					5000	4700	95	0	4800	96	0
Arsenic					5000	5100	101	0	5100	102	0
Barium					10000	10000	101	0	10000	102	0
Beryllium					500	490	99	0	500	100	0
Cadmium					2500	2500	101	0	2500	101	0
Calcium					400000	410000	101	0	410000	103	1
Chromium					15500	15000	96	0	15000	98	0
Cobalt					2500	2500	100	0	2500	100	0
Copper					15000	15000	99	0	15000	99	0
Iron					400000	410000	103	0	420000	104	0
Lead					25000	25000	99	0	25000	99	0
Magnesium					400000	400000	101	0	410000	102	0
Manganese					15000	15000	98	0	15000	99	0
Nickel					2500	2500	99	0	2500	99	0
Potassium					150000	150000	102	0	150000	103	0
Selenium					5000	4700	93	0	4700	95	0
Silver					1250	1200	97	0	1200	99	0
Sodium					400000	410000	101	0	410000	103	0
Thallium					5000	4700	94	0	4800	95	0
Vanadium					2500	2500	98	0	2500	100	1
Zinc					15000	14000	96	0	14000	97	0

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV002				ID: CCV009				ID: CCV010		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2500	2400	95	1	400000	400000	101	0	410000	101	2
Antimony	1000	950	95	0	5000	5000	100	0	4900	99	1
Arsenic	1000	1100	107	0	5000	5200	104	0	5100	101	1
Barium	520	530	102	0	10000	10000	103	0	10000	104	2
Beryllium	510	530	104	0	500	520	103	0	510	102	2
Cadmium	510	510	100	0	2500	2600	103	0	2500	101	1
Calcium	10000	10000	104	0	400000	410000	103	0	420000	104	2
Chromium	520	570	109	0	15500	16000	103	0	16000	102	1
Cobalt	520	510	98	0	2500	2600	103	0	2500	101	1
Copper	510	500	99	1	15000	15000	103	0	16000	104	2
Iron	10000	11000	107	0	400000	410000	104	0	410000	104	3
Lead	1000	1000	100	0	25000	26000	102	0	25000	101	1
Magnesium	6000	6100	101	0	400000	410000	102	0	410000	102	3
Manganese	520	540	104	0	15000	15000	102	0	15000	103	2
Nickel	530	520	98	0	2500	2600	103	0	2500	101	1
Potassium	9900	11000	108	0	150000	160000	104	0	160000	104	2
Selenium	1000	980	98	1	5000	4900	99	1	4800	97	1
Silver	250	240	97	0	1250	1300	104	0	1300	102	1
Sodium	10000	9900	99	1	400000	410000	102	0	410000	103	3
Thallium	1000	1100	109	1	5000	5000	100	0	5000	101	0
Vanadium	500	550	110	1	2500	2600	103	1	2600	103	3
Zinc	1000	920	92	0	15000	15000	99	1	15000	97	2

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Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: 51716 MA No. : SDG No.: MC0PI1Initial Calibration Verification Source : MP83143Continuing Calibration Verification Source : MP83146Run Batch: LB133481 Analytical Method: ICP-AESConcentration Units: µg/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV003				ID: CCV012				ID: CCV013		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2500	2300	92	1	400000	390000	98	1	390000	99	1
Antimony	1000	940	94	1	5000	4800	96	0	4800	96	3
Arsenic	1000	1100	109	1	5000	5100	102	1	5000	101	2
Barium	520	520	101	0	10000	10000	102	0	10000	103	0
Beryllium	510	520	102	0	500	520	104	1	520	103	0
Cadmium	510	490	97	0	2500	2500	100	1	2500	100	2
Calcium	10000	10000	101	0	400000	400000	100	0	400000	101	0
Chromium	520	560	107	0	15500	15000	100	0	16000	101	0
Cobalt	520	500	96	1	2500	2500	100	1	2500	100	2
Copper	510	490	97	0	15000	15000	100	0	15000	101	0
Iron	10000	10000	102	0	400000	400000	100	0	400000	101	0
Lead	1000	980	98	0	25000	25000	99	1	25000	99	2
Magnesium	6000	5900	98	2	400000	400000	100	0	400000	100	0
Manganese	520	530	102	1	15000	15000	100	0	15000	101	0
Nickel	530	510	96	1	2500	2500	100	1	2500	100	2
Potassium	9900	11000	108	2	150000	150000	102	0	150000	103	0
Selenium	1000	950	95	0	5000	4700	95	1	4700	94	2
Silver	250	240	96	0	1250	1300	103	0	1300	103	0
Sodium	10000	9500	95	3	400000	400000	99	0	400000	100	0
Thallium	1000	1100	107	1	5000	4800	96	0	4900	97	3
Vanadium	500	540	108	1	2500	2500	100	0	2500	101	1
Zinc	1000	960	96	0	15000	14000	96	1	15000	98	0

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV014				ID: CCV015		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					400000	390000	98	0	390000	98	0
Antimony					5000	4900	99	1	4900	99	0
Arsenic					5000	5200	103	1	5100	102	1
Barium					10000	10000	103	0	10000	104	0
Beryllium					500	510	102	0	500	100	1
Cadmium					2500	2500	102	1	2500	102	0
Calcium					400000	410000	102	0	400000	101	0
Chromium					15500	16000	101	1	16000	101	1
Cobalt					2500	2600	102	1	2500	102	0
Copper					15000	15000	102	0	15000	101	0
Iron					400000	400000	100	0	400000	99	0
Lead					25000	25000	101	1	25000	101	0
Magnesium					400000	400000	100	0	400000	99	0
Manganese					15000	15000	101	0	15000	101	0
Nickel					2500	2500	102	1	2500	102	0
Potassium					150000	150000	102	0	150000	102	0
Selenium					5000	4900	97	1	4900	97	0
Silver					1250	1300	103	0	1300	103	1
Sodium					400000	400000	100	0	400000	99	1
Thallium					5000	5000	100	1	5000	100	0
Vanadium					2500	2500	101	1	2500	100	0
Zinc					15000	15000	97	1	15000	97	1

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	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV016				ID: CCV017		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					400000	380000	96	1	390000	98	0
Antimony					5000	4900	97	0	4900	98	1
Arsenic					5000	5000	100	1	5000	99	1
Barium					10000	10000	102	2	10000	104	0
Beryllium					500	490	98	2	490	98	0
Cadmium					2500	2500	100	0	2500	100	0
Calcium					400000	400000	99	2	400000	101	0
Chromium					15500	16000	102	0	16000	102	0
Cobalt					2500	2500	101	0	2500	101	0
Copper					15000	15000	100	2	15000	101	0
Iron					400000	390000	98	2	390000	98	0
Lead					25000	25000	99	0	25000	99	0
Magnesium					400000	390000	97	2	390000	99	0
Manganese					15000	15000	100	2	15000	101	0
Nickel					2500	2500	101	0	2500	101	0
Potassium					150000	150000	100	2	150000	101	0
Selenium					5000	4700	95	0	4700	95	1
Silver					1250	1300	103	0	1300	103	0
Sodium					400000	390000	98	2	400000	99	0
Thallium					5000	5000	99	1	5000	100	0
Vanadium					2500	2500	99	2	2500	100	0
Zinc					15000	15000	97	1	15000	97	0