

FORM 3 - IN
BLANKS

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHLQ3

Preparation Blank Matrix :

Preparation Blank Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, or μg):

Analytical Method: ICP-AES Preparation Batch:

Run Batch: LB134114 Preparation Method:

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank/Leachate Extraction Blank	
	ID: ICB003	Q	ID: CCB019	Q	ID: CCB020	Q	ID: CCB021	Q	ID:	Q
Aluminum	200	U	46	J	200	U	200	U		
Antimony	60.0	U	60.0	U	-6.3	J	-6.5	J		
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U		
Barium	200	U	200	U	200	U	200	U		
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U		
Cadmium	5.0	U	0.29	J	5.0	U	5.0	U		
Calcium	5000	U	5000	U	5000	U	5000	U		
Chromium	-1.5	J	1.2	J	-1.5	J	-0.8	J		
Cobalt	50.0	U	50.0	U	50.0	U	50.0	U		
Copper	-6.1	J	25.0	U	-11	J	25.0	U		
Iron	100	U	79	J	20	J	35	J		
Lead	-3.6	J	10.0	U	10.0	U	3.7	J		
Magnesium	5000	U	5000	U	5000	U	5000	U		
Manganese	15.0	U	1.7	J	15.0	U	15.0	U		
Nickel	40.0	U	40.0	U	40.0	U	40.0	U		
Potassium	5000	U	5000	U	5000	U	5000	U		
Selenium	35.0	U	35.0	U	35.0	U	35.0	U		
Silver	1.6	J	1.7	J	10.0	U	10.0	U		
Sodium	5000	U	5000	U	5000	U	5000	U		
Thallium	25.0	U	25.0	U	25.0	U	25.0	U		
Vanadium	-12	J	7.5	J	-10	J	-10	J		
Zinc	60.0	U	60.0	U	60.0	U	32	J		

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Analytical Method: ICP-AES Preparation Batch:

Run Batch: LB134114 Preparation Method:

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank/Leachate Extraction Blank	
	ID:	Q	ID: CCB022	Q	ID: CCB023	Q	ID: CCB024	Q	ID:	Q
Aluminum			42	J	200	U	23	J		
Antimony			60.0	U	60.0	U	60.0	U		
Arsenic			10.0	U	10.0	U	10.0	U		
Barium			200	U	-7.2	J	200	U		
Beryllium			5.0	U	5.0	U	5.0	U		
Cadmium			5.0	U	5.0	U	5.0	U		
Calcium			5000	U	5000	U	5000	U		
Chromium			-1.5	J	-0.8	J	-1.7	J		
Cobalt			50.0	U	50.0	U	50.0	U		
Copper			25.0	U	-6.3	J	-13	J		
Iron			27	J	100	U	24	J		
Lead			3.3	J	3.8	J	10.0	U		
Magnesium			5000	U	5000	U	5000	U		
Manganese			15.0	U	1.6	J	2.3	J		
Nickel			40.0	U	40.0	U	40.0	U		
Potassium			590	J	5000	U	5000	U		
Selenium			35.0	U	35.0	U	35.0	U		
Silver			1.6	J	1.6	J	10.0	U		
Sodium			5000	U	5000	U	5000	U		
Thallium			25.0	U	25.0	U	25.0	U		
Vanadium			-8.4	J	50.0	U	50.0	U		
Zinc			33	J	32	J	31	J		

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Analytical Method: ICP-AES Preparation Batch:

Run Batch: LB134114 Preparation Method:

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank/Leachate Extraction Blank	
	ID:	Q	ID: CCB025	Q	ID: CCB026	Q	ID: CCB027	Q	ID:	Q
Aluminum			40	J	200	U	200	U		
Antimony			60.0	U	60.0	U	60.0	U		
Arsenic			10.0	U	10.0	U	6.0	J		
Barium			200	U	200	U	200	U		
Beryllium			5.0	U	5.0	U	5.0	U		
Cadmium			5.0	U	5.0	U	5.0	U		
Calcium			5000	U	5000	U	5000	U		
Chromium			10.0	U	-1.5	J	10.0	U		
Cobalt			50.0	U	50.0	U	50.0	U		
Copper			-6.3	J	-5.6	J	25.0	U		
Iron			31	J	100	U	51	J		
Lead			3.6	J	2.9	J	10.0	U		
Magnesium			5000	U	5000	U	5000	U		
Manganese			6.4	J	15.0	U	3.2	J		
Nickel			40.0	U	40.0	U	40.0	U		
Potassium			800	J	700	J	820	J		
Selenium			35.0	U	35.0	U	35.0	U		
Silver			1.3	J	1.7	J	1.2	J		
Sodium			5000	U	5000	U	5000	U		
Thallium			25.0	U	25.0	U	25.0	U		
Vanadium			-7.3	J	50.0	U	-5.8	J		
Zinc			32	J	31	J	32	J		

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Analytical Method: ICP-AES Preparation Batch:

Run Batch: LB134114 Preparation Method:

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank/Leachate Extraction Blank	
	ID:	Q	ID: CCB028	Q	ID: CCB029	Q	ID: CCB030	Q	ID:	Q
Aluminum			-25	J	200	U	200	U		
Antimony			60.0	U	60.0	U	60.0	U		
Arsenic			10.0	U	10.0	U	10.0	U		
Barium			200	U	200	U	200	U		
Beryllium			5.0	U	5.0	U	5.0	U		
Cadmium			5.0	U	5.0	U	5.0	U		
Calcium			5000	U	5000	U	5000	U		
Chromium			-1.3	J	10.0	U	10.0	U		
Cobalt			50.0	U	50.0	U	50.0	U		
Copper			25.0	U	25.0	U	25.0	U		
Iron			36	J	49	J	71	J		
Lead			10.0	U	10.0	U	5.2	J		
Magnesium			5000	U	160	J	5000	U		
Manganese			1.8	J	2.9	J	3.9	J		
Nickel			40.0	U	40.0	U	40.0	U		
Potassium			670	J	770	J	840	J		
Selenium			35.0	U	35.0	U	35.0	U		
Silver			10.0	U	10.0	U	10.0	U		
Sodium			5000	U	5000	U	5000	U		
Thallium			25.0	U	25.0	U	25.0	U		
Vanadium			-17	J	50.0	U	50.0	U		
Zinc			33	J	32	J	33	J		

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Preparation Blank Matrix :

Preparation Blank Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, or μg):

Analytical Method: ICP-AES Preparation Batch:

Run Batch: LB134114 Preparation Method:

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank/Leachate Extraction Blank	
	ID:	Q	ID: CCB031	Q	ID:	Q	ID:	Q	ID:	Q
Aluminum			-23	J						
Antimony			60.0	U						
Arsenic			10.0	U						
Barium			200	U						
Beryllium			5.0	U						
Cadmium			5.0	U						
Calcium			5000	U						
Chromium			10.0	U						
Cobalt			50.0	U						
Copper			25.0	U						
Iron			49	J						
Lead			3.7	J						
Magnesium			5000	U						
Manganese			2.8	J						
Nickel			40.0	U						
Potassium			790	J						
Selenium			35.0	U						
Silver			1.8	J						
Sodium			5000	U						
Thallium			25.0	U						
Vanadium			50.0	U						
Zinc			32	J						

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 Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHLQ3
 Preparation Blank Matrix : Soil
 Preparation Blank Concentration Units (µg/L, mg/L, mg/kg dry weight, or µg): mg/kg
 Analytical Method: ICP-AES Preparation Batch: PB165726
 Run Batch: LB134161 Preparation Method: 3050B

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank/Leachate Extraction Blank	
	ID: ICB051	Q	ID: CCB100	Q	ID: CCB101	Q	ID: CCB102	Q	ID: PBS726	Q
Aluminum	200	U	200	U	200	U	200	U	20.0	U
Antimony	60.0	U	60.0	U	60.0	U	60.0	U	6.0	U
Arsenic	10.0	U	10.0	U	10		10.0	U	1.0	U
Barium	200	U	200	U	200	U	200	U	20.0	U
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	0.5	U
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	0.5	U
Calcium	5000	U	5000	U	5000	U	5000	U	500	U
Chromium	10.0	U	10.0	U	-1.1	J	10.0	U	1.0	U
Cobalt	50.0	U	50.0	U	50.0	U	50.0	U	5.0	U
Copper	25.0	U	25.0	U	7.1	J	-19	J	-0.73	J
Iron	100	U	100	U	100	U	43	J	10.0	U
Lead	-3.3	J	10.0	U	10.0	U	10.0	U	1.0	U
Magnesium	-200	J	5000	U	5000	U	5000	U	500	U
Manganese	15.0	U	15.0	U	15.0	U	1.6	J	0.61	J
Nickel	40.0	U	40.0	U	40.0	U	40.0	U	4.0	U
Potassium	5000	U	5000	U	5000	U	5000	U	500	U
Selenium	35.0	U	35.0	U	35.0	U	35.0	U	3.5	U
Silver	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Sodium	5000	U	5000	U	5000	U	5000	U	500	U
Thallium	25.0	U	25.0	U	25.0	U	25.0	U	2.5	U
Vanadium	50.0	U	50.0	U	-17	J	50.0	U	5.0	U
Zinc	60.0	U	60.0	U	60.0	U	60.0	U	6.0	U

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Analytical Method: ICP-AES Preparation Batch:

Run Batch: LB134161 Preparation Method:

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank/Leachate Extraction Blank	
	ID:	Q	ID: CCB103	Q	ID: CCB104	Q	ID: CCB105	Q	ID:	Q
Aluminum			68	J	74	J	200	U		
Antimony			60.0	U	60.0	U	60.0	U		
Arsenic			10.0	U	10.0	U	10.0	U		
Barium			200	U	200	U	200	U		
Beryllium			5.0	U	5.0	U	5.0	U		
Cadmium			5.0	U	5.0	U	5.0	U		
Calcium			5000	U	5000	U	5000	U		
Chromium			10.0	U	10.0	U	10.0	U		
Cobalt			50.0	U	50.0	U	50.0	U		
Copper			-9.4	J	-11	J	25.0	U		
Iron			100	U	24	J	45	J		
Lead			10.0	U	10.0	U	10.0	U		
Magnesium			5000	U	5000	U	5000	U		
Manganese			3.9	J	4.4	J	4.7	J		
Nickel			40.0	U	40.0	U	40.0	U		
Potassium			5000	U	5000	U	5000	U		
Selenium			35.0	U	35.0	U	35.0	U		
Silver			1.7	J	10.0	U	1.6	J		
Sodium			5000	U	5000	U	5000	U		
Thallium			25.0	U	25.0	U	25.0	U		
Vanadium			50.0	U	-9.1	J	-7.7	J		
Zinc			60.0	U	60.0	U	60.0	U		

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Analytical Method: ICP-AES Preparation Batch:

Run Batch: LB134161 Preparation Method:

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank/Leachate Extraction Blank	
	ID:	Q	ID: CCB106	Q	ID: CCB107	Q	ID: CCB108	Q	ID:	Q
Aluminum			200	U	20	J	200	U		
Antimony			60.0	U	60.0	U	60.0	U		
Arsenic			9.3	J	8.9	J	10.0	U		
Barium			200	U	200	U	200	U		
Beryllium			5.0	U	5.0	U	5.0	U		
Cadmium			5.0	U	5.0	U	5.0	U		
Calcium			5000	U	5000	U	5000	U		
Chromium			10.0	U	10.0	U	10.0	U		
Cobalt			50.0	U	50.0	U	50.0	U		
Copper			25.0	U	-5.8	J	25.0	U		
Iron			71	J	33	J	21	J		
Lead			10.0	U	10.0	U	10.0	U		
Magnesium			5000	U	-220	J	-180	J		
Manganese			2.2	J	5.6	J	3.4	J		
Nickel			40.0	U	40.0	U	40.0	U		
Potassium			5000	U	5000	U	5000	U		
Selenium			35.0	U	35.0	U	35.0	U		
Silver			10.0	U	10.0	U	10.0	U		
Sodium			5000	U	5000	U	5000	U		
Thallium			25.0	U	25.0	U	25.0	U		
Vanadium			-12	J	50.0	U	50.0	U		
Zinc			60.0	U	60.0	U	60.0	U		

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Analytical Method: ICP-AES Preparation Batch:

Run Batch: LB134161 Preparation Method:

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank/Leachate Extraction Blank	
	ID:	Q	ID: CCB109	Q	ID:	Q	ID:	Q	ID:	Q
Aluminum			66	J						
Antimony			60.0	U						
Arsenic			5.2	J						
Barium			200	U						
Beryllium			5.0	U						
Cadmium			5.0	U						
Calcium			5000	U						
Chromium			10.0	U						
Cobalt			50.0	U						
Copper			-15	J						
Iron			100	U						
Lead			10.0	U						
Magnesium			-140	J						
Manganese			2.4	J						
Nickel			40.0	U						
Potassium			5000	U						
Selenium			35.0	U						
Silver			10.0	U						
Sodium			5000	U						
Thallium			25.0	U						
Vanadium			50.0	U						
Zinc			60.0	U						