

Absaroka Solutions
Project 1055
112 High Street
Buffalo, WY 82834

Date Received: 4/4/2025
Date Reported: 4/18/2025

Lab ID: 202551678 to 202551689

Lab ID	Sample ID	Depth in	pH 1:1	EC 1:1 mmho/cm	Lime Estimate	OM (%)	KCl NO ₃ ⁻	Olsen Bicarbonate P	CA-P S**	Ammonium Acetate				* CEC meq/100 g	Base Saturation					DTPA			N lb/1000	
										K	Ca**	Mg	Na		H	K	Ca	Mg	Na	Zn	Fe	Mn		Cu
202551678	AU_151_SS_01@0-6"	0-6	9.6	0.60	HIGH	2.07	87	13	84	1098	3328	189	2388	0	9	53	5	33	2.01	3.09	2.58	0.49	174	
202551679	AU_151_SS_01@6-12"	6-12	8.6	2.19	HIGH	2.16	65	9	156	1211	3667	272	4246	0	7	43	5	44	0.86	3.25	2.36	0.47	130	
202551680	AU_151_SS_01@12-24"	12-24	9.6	1.90	HIGH	1.67	29	4	609	1172	3078	563	4456	0	7	36	11	46	0.18	1.04	0.91	0.36	58	
202551681	AU_151_SS_02@0-6"	0-6	9.0	2.09	HIGH	2.07	219	16	406	1232	3221	172	5658	0	7	36	3	54	0.84	2.64	1.82	0.54	438	
202551682	AU_151_SS_02@6-12"	6-12	10.0	1.17	HIGH	1.90	128	4	695	909	2369	153	4640	0	7	33	4	57	0.25	2.03	1.19	0.56	256	
202551683	AU_151_SS_02@12-24"	12-24	9.5	2.15	HIGH	1.61	74	1	805	1038	1690	229	5105	0	8	24	5	63	0.06	1.05	0.91	0.34	148	
202551684	AU_151_SS_03@0-6"	0-6	6.4	2.25	HIGH	2.63	211	22	429	982	3745	353	29	24.3	0	10	77	12	1	2.12	27.40	8.19	0.49	422
202551685	AU_151_SS_03@6-12"	6-12	5.4	6.44	HIGH	3.69	472	8	920	1604	2736	443	112	34.1	36	12	40	11	1	0.36	5.22	40.06	0.48	944
202551686	AU_151_SS_03@12-24"	12-24	8.2	0.80	HIGH	2.31	475	8	397	1963	3975	630	173	30.9	0	16	64	17	2	0.16	1.06	5.38	0.29	950
202551687	AU_151_SS_BG_01@0-6"	0-6	8.2	0.19	HIGH	2.63	10	14	10	1245	4505	489	8	29.8	0	11	76	14	0	0.53	1.62	1.61	0.42	20
202551688	AU_151_SS_BG_01@6-12"	6-12	8.9	0.11	HIGH	2.37	15	5	17	711	3651	628	4	25.3	0	7	72	21	0	0.18	1.37	1.16	0.46	30
202551689	AU_151_SS_BG_01@12-24"	12-24	8.7	0.19	HIGH	1.76	11	14	14	677	2387	725	10	19.8	0	9	60	31	0	0.25	1.13	0.87	0.33	22

ppm = mg/Kg

* CEC could not be calculated for those samples with high concentration of Na. When the exchangeable sodium concentration is over 1000 ppm we no longer estimate the CEC and % Saturation. At such high levels both exchangeable Na and soluble Na could be present in the exchangeable result which would skew the CEC and % Saturation estimation.

Lab ID	Sample ID	Depth in	* Saturation %	pH	EC mmho/cm	SAR	Saturated Paste							ESP %	Soil Texture			CaCO ₃ (CCE) %	
							Bicarbonate	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Cl ⁻	SO ₄ ²⁻		Sand	Silt	Clay		Class
202551678	AU_151_SS_01@0-6"	0-6	9.6	5.55	26.2	3.89	12.1	1.6	68.2	1.0	55.8	7.5	33	41	32	27	Clay Loam	1.7	
202551679	AU_151_SS_01@6-12"	6-12	8.6	7.00	38.9	3.12	11.5	1.8	100.3	0.8	88.0	13.7	44	19	46	35	Silty Clay Loam	1.2	
202551680	AU_151_SS_01@12-24"	12-24	9.6	8.90	44.5	2.37	23.2	8.4	176.8	1.8	169.7	34.0	46	20	47	33	Silty Clay Loam	4.6	
202551681	AU_151_SS_02@0-6"	0-6	9.0	8.68	53.4	3.3	19.0	1.9	173.0	4.6	144.9	28.3	54	27	38	35	Clay Loam	1.0	
202551682	AU_151_SS_02@6-12"	6-12	10.0	9.30	61.3	3.12	17.3	2.4	192.3	1.2	156.9	41.8	57	17	47	36	Silty Clay Loam	2.7	
202551683	AU_151_SS_02@12-24"	12-24	9.5	9.60	68.1	2.86	16.5	4.4	220.1	1.9	191.0	41.8	63	21	43	35	Silty Clay Loam	5.2	
202551684	AU_151_SS_03@0-6"	0-6	38	6.4	6.34	0.8	4.72	145.1	25.1	7.0	4.1	147.1	27.5	1	41	32	27	Clay Loam	1.7
202551685	AU_151_SS_03@6-12"	6-12	45	5.4	6.20	0.4	8.94	205.9	32.2	4.7	5.5	180.1	26.5	1	30	35	35	Clay Loam	1.2
202551686	AU_151_SS_03@12-24"	12-24	43	8.2	6.54	0.8	2.22	204.0	27.9	8.1	7.4	172.1	13.7	2	27	40	32	Clay Loam	4.6
202551687	AU_151_SS_BG_01@0-6"	0-6	43	8.2	0.53	0.0	5.02	4.4	0.9	0.0	0.8	1.0	0.6	0	35	35	30	Clay Loam	0.9
202551688	AU_151_SS_BG_01@6-12"	6-12	47	8.9	0.64	0.0	4.84	4.9	1.5	0.0	0.3	1.2	0.9	0	32	38	30	Clay Loam	5.2
202551689	AU_151_SS_BG_01@12-24"	12-24	38	8.7	0.64	0.0	2.92	2.9	1.7	0.0	0.3	1.9	0.5	0	19	55	26	Silt Loam	5.4

ppm = mg/Kg

Lab ID	Sample ID	Depth in	*** Fertilizer Rate Recommendations						
			** N	P2O5	S	Zn	Fe	Mn	Cu
202551678	AU_151_SS_01@0-6"	0-6							
202551679	AU_151_SS_01@6-12"	6-12							
202551680	AU_151_SS_01@12-24"	12-24							
202551681	AU_151_SS_02@0-6"	0-6							
202551682	AU_151_SS_02@6-12"	6-12							
202551683	AU_151_SS_02@12-24"	12-24							
202551684	AU_151_SS_03@0-6"	0-6							
202551685	AU_151_SS_03@6-12"	6-12							
202551686	AU_151_SS_03@12-24"	12-24							
202551687	AU_151_SS_BG_01@0-6"	0-6							
202551688	AU_151_SS_BG_01@6-12"	6-12							
202551689	AU_151_SS_BG_01@12-24"	12-24							

*** N rate recommendations are based on 24" depth

*** Fertilizer rate recommendations could not be provided. Unknown crop or plant species to be grown.