

EF45 - BUCHLYVIE FARM SOIL TESTING RESULTS - 2020

Approved By: General Manager

Version: 1

Issue Date: 24 March 2021

Review Date: 24 March 2024



*Not Tested (NT) No Sample (NS)

ANALYSIS	PIVOT 1				PIVOT 2				PIVOT 3				PIVOT 4			
	0-10 cm	10-30 cm	30-60 cm	AVE	0-10 cm	10-30 cm	30-60 cm	AVE	0-10 cm	10-30 cm	30-60 cm	AVE	0-10 cm	10-30 cm	30-60 cm	AVE
pH - pH units	6.1	6.7	7.2	6.67	5.7	6.1	7	6.27	5.9	6.3	6.7	6.30	5.7	6.8	7	6.50
Electrical Conductivity $\mu\text{S}/\text{cm}$	640	230	270	380.00	260	250	380	296.67	460	260	280	333.33	190	250	120	186.67
TKN-N - mg/kg	3730	2140	2430	2766.67	2160	1830	1870	1953.33	2460	1830	2070	2120.00	2200	2160	2520	2293.33
Available Phosphorus (Colwell P) - mg/kg	57	11	13	27.00	63	13	13	29.67	53	14	8.5	25.17	26	11	8.5	15.17
Emerson Aggregate Class - Class	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!
Permeability - mm/hr	2	2	2	2.00	2	2	2	2.00	2	2	2	2.00	2	2	2	2.00
Exchangeable Calcium - mg/kg	1785	1299	1585	1556.33	1224	1033	1935	1397.33	1031	114	1149	764.67	1210	920	1391	1173.67
Exchangeable Magnesium - mg/kg	325	1004	1236	855.00	304	969	1583	952.00	294	771	1171	745.33	568	668	1167	801.00
Exchangeable Potassium - mg/kg	188	197	178	187.67	198	156	246	200.00	197	214	183	198.00	322	269	250	280.33
Exchangeable Sodium - mg/kg	168	262	885	438.33	118	268	849	411.67	277	175	804	418.67	124	35	502	220.33
Available Nitrate - mg/kg	58	5.9	8.2	24.03	19	1.1	0.8	6.97	10	2.4	1.9	4.77	14	0.78	0.1	4.96
Total Nitrogen - %	0.379	0.214	0.244	0.28	0.218	0.183	0.187	0.20	0.247	0.183	0.208	0.21	0.221	0.216	0.252	0.23
Cadnium - mg/kg	0.5	0.5	0.5	0.50	0.5	0.5	0.5	0.50	0.5	0.5	0.5	0.50	0.5	0.5	0.5	0.50
Organic Carbon - %	1.5	0.4	0.2	0.70	1.6	1.1	0.5	1.07	1.5	0.4	0.3	0.73	0.9	0.3	0.2	0.47
Total Phosphorus - mg/kg	340	62.3	66.9	156.40	311	78.2	70.8	153.33	344	66.8	50.3	153.70	157	67.1	75.9	100.00
Chromium - mg/kg	31	25	24	26.67	30	26	26	27.33	25	25	25	25.00	24	26	32	27.33
Chromium VI- mg/kg	0.002	0.002	1	0.33	0.002	1	1	0.67	0.002	1	1	0.67	1	1	1	1.00
Total Sulfur (LECO) - %	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!
Available Phosphorus (Bray P) - mg/kg	29	2.3	3.3	11.53	32	2.7	4.8	13.17	23	3.3	2.9	9.73	8.6	2.6	3.8	5.00
Exchangeable Aluminium - mg/kg	1	1	1	1.00	1	3.9	1	1.97	28	101	1.3	43.43	58	13	1	24.00
SAR - SAR Units	1.95	3.79	3.26	3.00	1.89	3.48	6.61	3.99	1.95	4.98	6.99	4.64	2.02	4.74	2.81	3.19
Chloride - mg/kg	28	35	100	54.33	41	48	170	86.33	23	43	160	75.33	39	120	51	70.00
CEC - cmol/kg	13	16	22	17.00	10	15	27	17.33	9.9	15	19	14.63	13	11	19	14.33
ESP - % of ECEC	5.7	6.9	17	9.87	5.1	7.8	14	8.97	12	4.9	18	11.63	4.1	1.4	11	5.50

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Leather Naturally

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ANALYSIS	PIVOT 5				IRRIGATION SECTOR 13				IRRIGATION SECTOR 14				IRRIGATION SECTOR 15			
	0-10 cm	10-30 cm	30-60 cm	AVE	0-10 cm	10-30 cm	30-60 cm	AVE	0-10 cm	10-30 cm	30-60 cm	AVE	0-10 cm	10-30 cm	30-60 cm	AVE
pH - pH units	5.5	6.7	6.5	6.23	5.6	6.1	7.2	6.30	6.2	6.9	8	7.03	7	6.7	7.6	7.10
Electrical Conductivity µS/cm	220	150	260	210.00	200	160	260	206.67	160	230	280	223.33	95	170	200	155.00
TKN-N - mg/kg	3600	2820	2420	2946.67	2260	1330	1740	1776.67	2870	2090	1970	2310.00	4740	4030	3860	4210.00
Available Phosphorus (Colwell P) - mg/kg	33	9.5	8.5	17.00	64	11	9.2	28.07	68	14	11	31.00	27	12	11	16.67
Emerson Aggregate Class - Class	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!
Permeability - mm/hr	2	2	2	2.00	2	2	2	2.00	2	2	2	2.00	2	2	2	2.00
Exchangeable Calcium - mg/kg	618	1684	1515	1272.33	971	1322	1818	1370.33	1606	1453	1386	1481.67	956	794	763	837.67
Exchangeable Magnesium - mg/kg	184	1161	1412	919.00	152	615	726	497.67	522	1243	1699	1154.67	225	666	953	614.67
Exchangeable Potassium - mg/kg	83	270	290	214.33	192	232	239	221.00	276	299	295	290.00	122	114	142	126.00
Exchangeable Sodium - mg/kg	79	362	667	369.33	26	112	68	68.67	102	363	1065	510.00	39	180	477	232.00
Available Nitrate - mg/kg	12	0.75	0.7	4.48	15	2.4	1.5	6.30	12	1.5	1.2	4.90	2.4	0.93	0.52	1.28
Total Nitrogen - %	0.361	0.282	0.242	0.30	0.227	0.134	0.174	0.18	0.288	0.21	0.198	0.23	0.474	0.403	0.386	0.42
Cadmium - mg/kg	0.5	0.5	0.5	0.50	0.5	0.5	0.5	0.50	0.5	0.5	0.5	0.50	0.5	0.5	0.5	0.50
Organic Carbon - %	1.5	0.4	1.1	1.00	0.9	0.9	1	0.93	2.4	0.8	1.1	1.43	0.6	0.3	0.3	0.40
Total Phosphorus - mg/kg	302	66.7	70.5	146.40	249	72.3	91.7	137.67	320	64.2	71.7	151.97	120	64.2	53.4	79.20
Chromium - mg/kg	25	22	26	24.33	16	18	20	18.00	21	21	21	21.00	22	23	21	22.00
Chromium VI- mg/kg	0.002	0.002	0.002	0.00	0.002	1	1	0.67	0.002	1	1	0.67	0.002	0.002	1	0.33
Total Sulfur (LECO) - %	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!
Available Phosphorus (Bray P) - mg/kg	15	2.3	3	6.77	31	2.9	3.7	12.53	27	4.1	3.1	11.40	7.8	26	2.7	12.17
Exchangeable Aluminium - mg/kg	68	1.2	1	23.40	28	1	2.1	10.37	4	11	1.6	5.53	10	35	26	23.67
SAR - SAR Units	0.84	4.74	3.28	2.95	0.47	2.97	8.43	3.96	1.24	1.26	1.34	1.28	0.63	1.34	4.05	2.01
Chloride - mg/kg	26	59	48	44.33	21	47	130	66.00	29	95	82	68.67	14	20	53	29.00
CEC - cmol/kg	6.6	20	23	16.53	7.3	13	16	12.10	14	20	26	20.00	7.3	11	14	10.77
ESP - % of ECEC	5.3	7.8	13	8.70	1.5	3.8	1.9	2.40	3.3	7.9	18	9.73	2.3	6.9	15	8.07

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