

EF45 - BUCHLYVIE FARM SOIL TESTING RESULTS - 2021

Approved By: General Manager

Version: 1

Issue Date: 24 March 2021

Review Date: 24 March 2024



Leather Naturally

*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	7	7.4	7.6	7.33	6.7	7.2	7.5	7.13	6.7	7.4	9	7.70	7.3	7	7.1	7.13
Electrical Conductivity $\mu\text{S}/\text{cm}$	170	330	280	260.00	160	190	340	230.00	88	100	340	176.00	94	200	280	191.33
TKN-N - mg/kg	690	432	296	472.67	802	369	372	514.33	881	269	381	510.33	912	320	280	504.00
Available Phosphorus (Colwell P) - mg/kg	20	1.6	1.6	7.73	16	2	2.3	6.77	43	2	1.3	15.43	49	2.3	3	18.10
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	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!
Exchangeable Calcium - mg/kg	1478	1733	1556	1589.00	1051	1372	1521	1314.67	1215	2010	1494	1573.00	828	1533	845	1068.67
Exchangeable Magnesium - mg/kg	350	859	1130	779.67	320	1219	1660	1066.33	274	867	1215	785.33	157	732	1104	664.33
Exchangeable Potassium - mg/kg	165	248	199	204.00	212	152	249	204.33	196	257	233	228.67	197	211	304	237.33
Exchangeable Sodium - mg/kg	111	87	664	287.33	120	329	535	328.00	100	395	575	356.67	117	239	520	292.00
Available Nitrate - mg/kg	0.31	1.7	0.1	0.70	1.7	0.1	0.1	0.63	0.58	0.1	0.15	0.28	1.6	0.1	0.1	0.60
Total Nitrogen - %	690	430	280	466.67	800	350	350	500.00	880	260	380	506.67	910	310	250	490.00
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	0.3	0.1	0.47	1	0.2	0.4	0.53	1.3	0.2	0.1	0.53	1.2	0.2	0.1	0.50
Total Phosphorus - mg/kg	227	81	91.3	133.10	218	71.5	86.3	125.27	352	68.9	82.6	167.83	296	92.1	69.3	152.47
Chromium - mg/kg	30.8	32.4	34.7	32.63	32.1	29.8	32.9	31.60	40.8	30.6	30.8	34.07	28.6	25.9	25.7	26.73
Chromium VI- mg/kg	1	1	10	4.00	1	3	9	4.33	1	2	1	1.33	1	2	6	3.00
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	7.6	2	3.3	4.30	7.8	2.2	2.9	4.30	24	2.3	3.3	9.87	23	2.5	2.7	9.40
Exchangeable Aluminium - mg/kg	1.1	1	1	1.03	12	1	1	4.67	2.1	1	1	1.37	35	1	1	12.33
SAR - SAR Units	2.02	7.15	7.34	5.50	3.1	5.37	10.77	6.41	1.75	3.87	15.58	7.07	2.22	4.85	8.84	5.30
Chloride - mg/kg	19	73	46	46.00	16	71	59	48.67	13	62	64	46.33	13	39	110	54.00
CEC - cmol/kg	11	17	20	16.00	9.2	19	24	17.40	9.3	20	21	16.77	6.8	16	16	12.93
ESP - % of CEC	4.3	2.3	14	6.87	5.7	7.6	9.6	7.63	4.7	8.7	12	8.47	7.4	6.6	14	9.33

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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	6.6	6.8	6.9	6.77	5	5.8	6.7	5.83	6	5.3	8	6.43	6.6	6.9	7.5	7.00
Electrical Conductivity $\mu\text{S}/\text{cm}$	76	86	250	137.33	240	290	200	243.33	140	200	590	310.00	140	180	260	193.33
TKN-N - mg/kg	1020	277	157	484.67	926	238	263	475.67	1000	270	251	507.00	734	306	239	426.33
Available Phosphorus (Colwell P) - mg/kg	28	2.3	20	16.77	69	20	20	36.33	21	2.6	2.3	8.63	51	1.6	2.3	18.30
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	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!
Exchangeable Calcium - mg/kg	1116	1129	1441	1228.67	564	1191	1745	1166.67	1354	1339	933	1208.67	891	1772	1752	1471.67
Exchangeable Magnesium - mg/kg	314	1081	1216	870.33	72	835	541	482.67	401	1227	1262	963.33	112	1256	1480	949.33
Exchangeable Potassium - mg/kg	207	267	330	268.00	105	206	205	172.00	140	228	170	179.33	132	216	242	196.67
Exchangeable Sodium - mg/kg	40	381	540	320.33	54	251	102	135.67	77	276	541	298.00	62	274	517	284.33
Available Nitrate - mg/kg	3.3	0.1	0.1	1.17	26	8.2	3	12.40	0.72	0.1	1.2	0.67	2.3	0.1	0.1	0.83
Total Nitrogen - %	1020	260	150	476.67	900	230	260	463.33	1000	270	250	506.67	730	300	230	420.00
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	0.1	0.1	0.57	1.7	0.2	0.3	0.73	0.3	0.4	0.3	0.33	1.5	0.4	0.2	0.70
Total Phosphorus - mg/kg	364	83.8	90	179.27	281	95.8	104	160.27	373	109	93.4	191.80	272	80.2	67.1	139.77
Chromium - mg/kg	33.7	36.9	23.7	31.43	21.2	29.7	25.3	25.40	25.5	29.1	36.9	30.50	26.7	30	30.7	29.13
Chromium VI- mg/kg	1	2	1	1.33	1	1	1	1.00	1	1	1	1.00	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	13	2.2	2.9	6.03	30	2.7	3.8	12.17	9.1	2.3	2.3	4.57	27	1.8	3.1	10.63
Exchangeable Aluminium - mg/kg	11	1	1	4.33	31	2	1	11.33	1.8	1.1	1	1.30	8.8	1	1	3.60
SAR - SAR Units	2.22	3.9	7.57	4.56	1.01	3.29	3.75	2.68	1.58	1.85	14.28	5.90	2.74	3.03	6.76	4.18
Chloride - mg/kg	16	21	98	45.00	28	31	29	29.33	24	14	40	26.00	29	58	64	50.33
CEC - cmol/kg	9	17	20	15.33	4.4	14	14	10.80	11	19	18	16.00	6.1	21	24	17.03
ESP - % of ECEC	2	9.8	12	7.93	5.4	7.5	3.1	5.33	3.1	6.5	13	7.53	4.4	5.7	9.4	6.50

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