

EF45 - BUCHLYVIE FARM SOIL TESTING RESULTS - 2024

Approved By: General Manager
Version: 2
Issue Date: 04 April 2024
Review Date: 04 April 2027



*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	7.2	7.1	7.1	7.13	6.4	7.1	7.4	6.97	6.3	6.7	7	6.67	5.8	6.6	6.5	6.30
Electrical Conductivity µS/cm	270	520	790	526.67	460	270	420	383.33	690	430	570	563.33	720	310	560	530.00
TKN-N - mg/kg	1100	580	370	683.33	1320	480	290	696.67	1360	500	540	800.00	1580	420	340	780.00
Available Phosphorus (Colwell P) - mg/kg	19	4.6	5.1	9.57	78	4.8	5.1	29.30	11	2	2.4	5.13	38	4.4	4.5	15.63
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	1	1	1	1.00	1	1	1	1.00	2	1	1	1.33	1	1	1	1.00
Exchangeable Calcium - mg/kg	1490	1210	987	1229.00	1860	1790	2240	1963.33	1760	1890	2830	2160.00	1180	1390	2490	1686.67
Exchangeable Magnesium - mg/kg	456	975	1230	887.00	379	1420	2040	1279.67	486	878	1430	931.33	226	48	1640	638.00
Exchangeable Potassium - mg/kg	222	138	150	170.00	290	341	504	378.33	304	267	347	306.00	198	233	300	243.67
Exchangeable Sodium - mg/kg	362	700	854	638.67	365	520	729	538.00	649	826	894	789.67	443	874	1020	779.00
Available Nitrate - mg/kg	15	8.9	7.4	10.43	48	4.3	25	25.77	74	30	33	45.67	89	9.2	30	42.73
Total Nitrogen - %	0.112	0.589	0.377	0.36	0.137	0.488	0.315	0.31	0.143	0.53	0.573	0.42	0.167	0.432	0.37	0.32
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 - %	1.4	0.7	0.5	0.87	2	0.7	0.4	1.03	1.8	0.8	0.5	1.03	1.9	0.5	0.3	0.90
Total Phosphorus - mg/kg	202	87.5	63.3	117.60	277	71.9	75.4	141.43	281	85.7	81.2	149.30	272	78	72.1	140.70
Chromium - mg/kg	31.5	33.9	27.5	30.97	32.8	25.8	29.6	29.40	33.1	29.9	31.3	31.43	25.2	28.1	24.4	25.90
Chromium VI- mg/kg	1	1	1	1.00	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	7.1	1	1.7	3.27	32	1.6	2.8	12.13	3.8	1	1	1.93	18	2.3	2.6	7.63
Exchangeable Aluminium - mg/kg	1	6.7	1	2.90	1	3.8	1	1.93	4.4	1	1	2.13	14	1	1	5.33
SAR - SAR Units	7.6	9.5	11.7	9.60	4.03	3.42	10.6	6.02	5.7	11	11.2	9.30	6.6	6.7	11.5	8.27
Chloride - mg/kg	48	110	200	119.33	71	68	85	74.67	130	170	190	163.33	120	81	240	147.00
CEC - cmol/kg	13.4	17.5	19.2	16.70	14.7	23.8	32.4	23.63	16.4	20.9	30.7	22.67	10.2	17.8	31.1	19.70
ESP - %of ECEC	12	17	19	16.00	11	9.4	9.7	10.03	17	17	13	15.67	18	21	14	17.67

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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	6.1	7.1	7.2	6.80	6.2	6.6	6.6	6.47	5.8	6.2	6.3	6.10	6.4	6.8	7	6.73
Electrical Conductivity µS/cm	210	310	570	363.33	350	260	280	296.67	730	730	790	750.00	140	250	450	280.00
TKN-N - mg/kg	520	970	360	616.67	1150	570	630	783.33	1200	630	420	750.00	560	600	370	510.00
Available Phosphorus (Colwell P) - mg/kg	8.6	3.6	4.3	5.50	43	7.1	3.3	17.80	44	5		24.50	14	3.3	3.1	6.80
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	1	1	1	1.00	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!
Exchangeable Calcium - mg/kg	1300	1330	1240	1290.00	1380	1320	1840	1513.33	1440	854	87	793.67	1120	1220	1410	1250.00
Exchangeable Magnesium - mg/kg	473	880	878	743.67	49.4	417	936	467.47	326	748	89	387.67	419	857	1300	858.67
Exchangeable Potassium - mg/kg	226	217	213	218.67	214	153	151	172.67	188	131		159.50	143	149	200	164.00
Exchangeable Sodium - mg/kg	409	536	618	521.00	290	353	518	387.00	386	497	500	461.00	159	299	630	362.67
Available Nitrate - mg/kg	7.2	19	3.5	9.90	33	6.7	1.7	13.80	40	25	31	32.00	1.5	0.1	0.4	0.67
Total Nitrogen - %	0.572	0.989	0.364	0.64	0.118	0.578	0.632	0.44	0.124	0.655	0.451	0.41	0.562	0.601	0.371	0.51
Cadnium - mg/kg	0.5	0.5	0.5	0.50	1	1.4	1.5	1.30	1.5	1.6	1.7	1.60	1.5	1.8	0.5	1.27
Organic Carbon - %	0.6	1	0.3	0.63	1.1	0.3	0.1	0.50	1.4	0.3	0.2	0.63	0.5	0.3	0.1	0.30
Total Phosphorus - mg/kg	111	210	65.4	128.80	242	117	127	162.00	291	82	84	152.33	112	89.5	61.3	87.60
Chromium - mg/kg	30	30.2	24	28.07	17	22.4	23.5	20.97	27.1	26.1	26.7	26.63	24.6	28.9	26.2	26.57
Chromium VI- mg/kg	1	1	1	1.00	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	2.7	1.2	7	3.63	26	7	5.7	12.90	27	2.9	NT	14.95	6.1	2.1	3.6	3.93
Exchangeable Aluminium - mg/kg	13	1	1	5.00	3.5	1.3	1	1.93	2.9	26	NT	14.45	2.4	1.1	1	1.50
SAR - SAR Units	6.4	3.2	15.8	8.47	4.89	5.62	7.18	5.90	5.12	10.3	9	8.14	3.46	7.22	6.93	5.87
Chloride - mg/kg	50	48	170	89.33	76	120	87	94.33	84	190	280	184.67	29	87	120	78.67
CEC - cmol/kg	12.7	16.8	16.7	15.40	9.1	12	19.5	13.53	12	12.9	NT	12.45	10.1	14.8	21	15.30
ESP - %of ECEC	14	14	16	14.67	14	13	11	12.67	14	16	NT	15.00	6.8	8.7	13	9.50