

EF44 - TANNERY 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	IRRIGATION SECTOR 1				IRRIGATION SECTOR 2				IRRIGATION SECTOR 3				IRRIGATION SECTOR 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	5.3	5.7	5.7	5.57	5.4	5.5	6.2	5.70	5	5.1	5.7	5.27	5	5	5.7	5.23
Electrical Conductivity µS/cm	390	500	680	523.33	350	610	500	486.67	560	440	560	520.00	550	780	610	646.67
TKN-N - mg/kg	3900	2420	2560	2960.00	4350	3010	2440	3266.67	4980	2900	3040	3640.00	6270	3190	2980	4146.67
Available Phosphorus (Colwell P) - mg/kg	139	22	14	58.33	108	11	9.8	42.93	146	17	14	59.00	161	13	16	63.33
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	988	1632	1333	1317.67	1038	1495	1538	1357.00	1108	889	1142	1046.33	881	1159	2122	1387.33
Exchangeable Magnesium - mg/kg	133	382	499	338.00	178	817	570	521.67	224	588	618	476.67	132	360	481	324.33
Exchangeable Potassium - mg/kg	167	220	190	192.33	245	257	183	228.33	280	198	239	239.00	220	199	325	248.00
Exchangeable Sodium - mg/kg	181	546	628	451.67	150	423	448	340.33	309	304	403	338.67	117	491	591	399.67
Available Nitrate - mg/kg	73	25	42	46.67	58	19	30	35.67	91	39	46	58.67	76	23	24	41.00
Total Nitrogen - %	0.398	0.244	0.26	0.30	0.441	0.302	0.247	0.33	0.507	0.294	0.309	0.37	0.635	0.321	0.3	0.42
Cadnium - mg/kg	150	0.5	0.5	50.33	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 - %	1.9	0.3	0.2	0.80	2.2	0.3	0.2	0.90	2.3	0.4	0.3	1.00	2.8	0.4	0.3	1.17
Total Phosphorus - mg/kg	438	122	118	226.00	455	96.7	90.4	214.03	447	132	131	236.67	458	122	128	236.00
Chromium - mg/kg	127	34.8	8.2	56.67	116	13	10.9	46.63	69.9	13.1	12.3	31.77	81	16	10	35.67
Chromium VI- mg/kg	-1	0.002	0.002	-0.33	0.002	0.002	0.002	0.00	0.002	0.002	0.002	0.00	0.002	0.002	0.002	0.00
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	76	7.3	2.9	28.73	56	3.7	3.3	21.00	82	4.2	4.2	30.13	93	4.2	3.5	33.57
Exchangeable Aluminium - mg/kg	22	9.4	12	14.47	13	2.6	2.4	6.00	16	52	12	26.67	11	55	28	31.33
SAR - SAR Units	2.84	7.23	7.51	5.86	3.17	6.62	6.03	5.27	4.96	7.52	9.42	7.30	3.09	7.27	9.35	6.57
Chloride - mg/kg	49	45	110	68.00	48	44	85	59.00	100	55	89	81.33	58	71	120	83.00
CEC - cmol/kg	7.7	14	14	11.90	8.2	17	15	13.40	9.8	13	14	12.27	6.9	13	19	12.97
ESP - % of ECEC	10	16	19	15.00	8	11	13	10.67	14	11	13	12.67	7.5	17	14	12.83

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Leather Naturally

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ANALYSIS	IRRIGATION SECTOR 5				IRRIGATION SECTOR 6				IRRIGATION SECTOR 7				IRRIGATION SECTOR 8			
	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	5.3	5.4	5.23	5.4	5.8	5.8	5.67	5.5	5.5	6.2	5.73	5.7	6.1	5.9	5.90
Electrical Conductivity $\mu\text{S}/\text{cm}$	500	400	610	503.33	350	460	1180	663.33	800	650	720	723.33	1120	420	900	813.33
TKN-N - mg/kg	3940	3460	2980	3460.00	2680	1690	1390	1920.00	3480	2830	3120	3143.33	3610	3070	2600	3093.33
Available Phosphorus (Colwell P) - mg/kg	86	18	18	40.67	92	22	11	41.67	54	9.5	13	25.50	50	16	15	27.00
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	759	970	1233	987.33	989	1468	2088	1515.00	1.352	1200	1149	783.45	775	1124	735	878.00
Exchangeable Magnesium - mg/kg	137	303	923	454.33	160	277	571	336.00	304	1151	431	628.67	198	429	327	318.00
Exchangeable Potassium - mg/kg	81	129	196	135.33	151	180	189	173.33	203	164	204	190.33	191	213	136	180.00
Exchangeable Sodium - mg/kg	115	356	592	354.33	131	488	696	438.33	202	336	823	453.67	241	802	764	602.33
Available Nitrate - mg/kg	43	7.9	17	22.63	35	6.2	18	19.73	44	37	25	35.33	52	13	51	38.67
Total Nitrogen - %	0.399	0.346	0.3	0.35	0.272	0.17	0.14	0.19	0.353	0.287	0.315	0.32	0.366	0.309	0.265	0.31
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 - %	1.6	0.3	0.3	0.73	2	0.7	0.2	0.97	1.2	0.3	0.2	0.57	1	0.3	0.2	0.50
Total Phosphorus - mg/kg	338	107	108	184.33	495	137	138	256.67	276	128	121	175.00	282	139	103	174.67
Chromium - mg/kg	56	14	14	28.00	12	15	12	13.00	30	24	21	25.00	34	23	20	25.67
Chromium VI- mg/kg	0.002	0.002	0.002	0.00	0.002	1	0.002	0.33	0.002	0.002	1	0.33	0.002	0.002	0.002	0.00
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	43	4.4	3.6	17.00	45	5.3	2.4	17.57	38	2.2	3.6	14.60	34	4.6	4.4	14.33
Exchangeable Aluminium - mg/kg	45	35	12	30.67	9.1	4.2	1.6	4.97	7.7	3.1	1	3.93	36	5	4.6	15.20
SAR - SAR Units	2.79	9.04	8.78	6.87	3.78	8.08	7.63	6.50	2.51	10.41	9.17	7.36	1.59	4.81	7.71	4.70
Chloride - mg/kg	40	39	84	54.33	42	48	120	70.00	83	92	120	98.33	78	53	210	113.67
CEC - cmol/kg	6.7	10	17	11.23	7.4	12	19	12.80	11	17	13	13.67	7.8	13	10	10.27
ESP - % of ECEC	7.5	16	14	12.50	7.7	17	16	13.57	8.1	8.4	27	14.50	13	26	33	24.00