

SOIL ANALYSIS 2020

EPA ID LOCATION: 4

EPA LICENSE NUMBER: 12765



\*Not Tested (NT) No Sample (NS)

ANALYSIS	IRRIGATION BAY 1					IRRIGATION BAY 2					IRRIGATION BAY 3					IRRIGATION BAY 4				
	0-10 cm	10-30 cm	30-60 cm	60-90 cm	AVE	0-10 cm	10-30 cm	30-60 cm	60-90 cm	AVE	0-10 cm	10-30 cm	30-60 cm	60-90 cm	AVE	0-10 cm	10-30 cm	30-60 cm	60-90 cm	AVE
pH - pH units	7.17	6.44	6.54	7.34	6.87	6.17	5.83	6.51	7.39	6.48	6.23	5.84	5.74	7.26	6.27	6.7	5.9	5.74	6.87	6.30
Electrical Conductivity $\mu$ S/cm	1040	810	1790	3450	1772.50	580	830	690	1180	820.00	890	790	700	1980	1090.00	890	690	1020	1630	1057.50
TKN-N - mg/kg	3420	690	520	360	1247.50	2470	1070	400	280	1055.00	3880	870	620	410	1445.00	3900	2170	560	250	1720.00
Total Phosphorus - mg/kg	926	352	200	113	397.75	1030	418	185	200	458.25	844	452	233	314	460.75	784	373	206	175	384.50
Colwell P - mg/kg	249	52	21	3.1	81.28	155	67	8.6	10	60.15	177	70	13	7.9	66.98	162	50	9.3	3.9	56.30
Permability - mm/hr	20-60	20-60	5-20	20-60	20-60	20-60	20-60	20-60	2.5-5	20-60	20-60	20-60	20-60	2.5-5	20-60	20-60	20-60	20-60	20-60	20-60
Exchangeable Calcium - mg/kg	1506	344	984	1762	1149.00	1460	1042	780	1272	1138.50	1428	752	486	1452	1029.50	1626	860	810	1400	1174.00
Exchangeable Magnesium - mg/kg	50.8	14.9	17.1	310	98.20	49.9	55.9	62.5	466	158.58	39.4	18.9	20.3	344	105.65	43.3	22.3	45	309	104.90
Exchangeable Potassium - mg/kg	376	245	266	495	345.50	266	243	241	476	254.50	276	257	232	620	346.25	301	244	274	425	273.00
Exchangeable Sodium - mg/kg	2120	1780	3090	5700	3172.50	785	1060	1100	2740	1421.25	1390	1400	1280	3760	1957.50	1570	1240	2100	3420	2082.50
Exchangeable Phosphorus (Bray P) - mg/kg	152.3	39.7	10	3.3	51.33	74.9	35.5	5.5	6.8	30.68	115.9	47.4	10.4	5.4	44.78	100.6	35.2	7.6	5.7	37.28
Exchangeable Aluminium - mg/kg	2.7	2.7	2.7	2.7	2.70	2.7	2.7	2.7	2.7	2.70	2.7	2.7	2.7	2.7	2.70	2.7	2.7	2.7	2.7	2.70
Organic Carbon - %	2.49	0.86	0.64	0.22	1.05	2.13	1.24	0.69	0.27	1.08	2.85	1.57	0.4	0.28	1.28	3.11	1.57	0.53	0.25	1.37
SAR - SAR Units	16	17	20	40	23.25	6.9	10	8.9	15	10.20	14	14	13	39	20.00	14	12	11	33	17.50
Chloride - mg/kg	939	964	1960	4760	2155.75	296	609	508	924	584.25	935	897	707	2350	1222.25	769	566	1140	2000	1118.75
CEC - cmol/kg	13.2	6.17	9.45	21.1	12.48	9.5	7.47	6.56	17.9	10.36	10.3	6.97	5.53	18.9	10.43	12	7.4	8.87	17.9	11.54
ESP - %of ECEC	32.3	60	39.3	40	42.90	11.7	15.8	23.3	36.5	21.83	20.8	34	41.8	38.2	33.70	22.5	30.5	41.9	40.9	33.95
Total Nitrogen - %	0.347	0.072	0.057	0.05	0.13	0.251	0.11	0.05	0.05	0.12	0.397	0.089	0.07	0.05	0.15	0.395	0.222	0.063	0.05	0.18

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ANALYSIS	IRRIGATION BAY 5					IRRIGATION BAY 6					IRRIGATION BAY 7				
	0-10 cm	10-30 cm	30-60 cm	60-90 cm	AVE	0-10 cm	10-30 cm	30-60 cm	60-90 cm	AVE	0-10 cm	10-30 cm	30-60 cm	60-90 cm	AVE
pH - pH units	6.29	5.84	5.97	7.63	6.43	6.91	6.36	6.66	8.11	7.01	6.54	6.2	7.13	8.31	7.05
Electrical Conductivity µS/cm	530	510	850	1120	752.50	420	480	1020	1840	940.00	520	470	890	2080	990.00
TKN-N - mg/kg	4560	740	630	250	1545.00	2480	700	680	310	1042.50	3120	1350	500	170	1285.00
Total Phosphorus - mg/kg	895	419	166	116	399.00	479	230	167	121	249.25	291	<10	<10	<10	291.00
Colwell P - mg/kg	167	45	6.7	3	55.43	69	17	3	<3	29.67	125	14	4	<3	47.67
Permeability - mm/hr	20-60	20-60	2.5-5	2.5-5	20-60	20-60	20-60	5-20	2.5-5	20-60	20-60	2.5-5	2.5-5	2.5-5	20-60
Exchangeable Calcium - mg/kg	1534	758	920	1416	1157.00	1422	720	1014	1466	1155.50	1510	862	1666	1778	1454.00
Exchangeable Magnesium - mg/kg	50.5	21.7	28.2	456	139.10	49.7	42.2	68.2	637	199.28	90.4	64.4	387	1232	443.45
Exchangeable Potassium - mg/kg	360	261	227	413	282.67	311	255	192	347	252.67	386	242	402	246	343.33
Exchangeable Sodium - mg/kg	1190	954	2240	2890	1818.50	981	1260	2850	3480	2142.75	1220	1100	2870	3540	2182.50
Exchangeable Phosphorus (Bray P) - mg/kg	87.8	31.7	6.4	5.8	32.93	49.9	14.5	7.2	3.4	18.75	71.9	13.6	7.2	3.2	23.98
Exchangeable Aluminium - mg/kg	2.7	2.7	2.7	2.7	2.70	2.7	2.7	2.7	2.7	2.70	2.7	2.7	2.7	2.7	2.70
Organic Carbon - %	3.78	1.56	0.68	0.26	1.57	2.52	1.04	0.69	0.21	1.12	2.72	0.91	0.62	0.26	1.13
SAR - SAR Units	12	10	7.4	16	11.35	7.2	6.7	8	34	13.98	6.9	6	10	23	11.48
Chloride - mg/kg	401	354	1410	1070	808.75	340	484	1860	1800	1121.00	465	474	770	2280	997.25
CEC - cmol/kg	11.7	6.46	9.86	19.4	11.86	10.6	7.45	11.9	19.5	12.36	12.2	7.83	20.5	26	16.63
ESP - %of ECEC	22.9	27.7	44.7	38.9	33.55	21.8	37.9	48.8	30.9	34.85	23.5	29.9	38.8	24.3	29.13
Total Nitrogen - %	0.46	0.075	0.072	<0.05	0.20	0.249	0.071	0.071	<0.05	0.13	0.314	0.137	0.056	<0.05	0.17