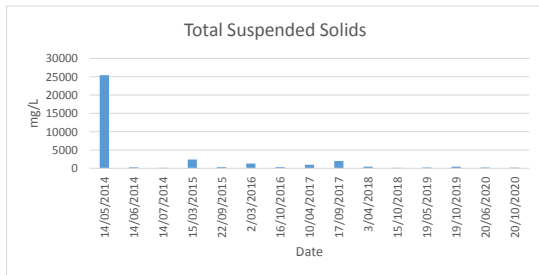
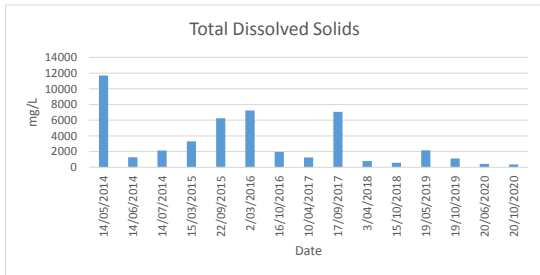
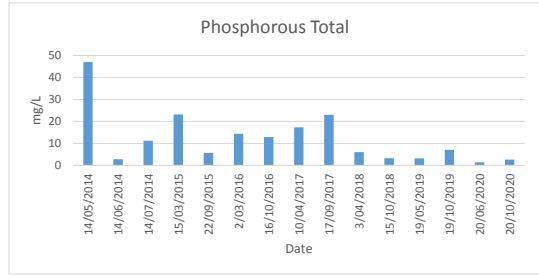
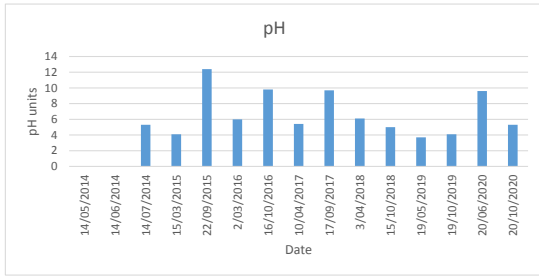
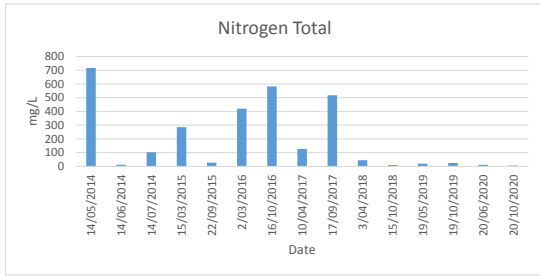
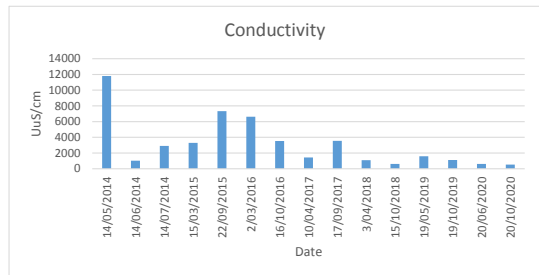
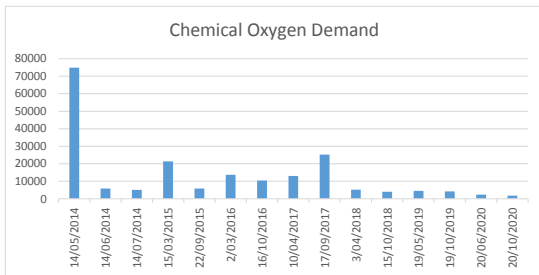
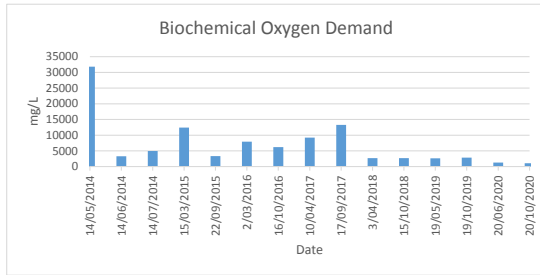




EPA Identification point number	Type of Monitoring Point	Type of Discharge Point	How Monitored	Location Description	Detail	Standing Water Level	Pollutant																
							ammonia	Ca	EC	Mg	Nitrate N	N (total)	pH	P (total)	K	Na							
<a href="#">Point 7: Piezometer Red Frontignac Row 1</a>	Groundwater quality monitoring. Standing water level monitoring		Groundwater sample. Groundwater level m'mnt.	Soil control point "EPA 7" on site map.	Test																		
					unit of measure	metres	mg/L	mg/L	µs/cm	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L							
					frequency	every 6 months																	
					sampling method	inspection																	
																		Groundwater Last sampled	20/09/2020	Next due	20/09/2021		
																			Standing depth last completed	16/10/2020	Next due	16/04/2021	
<a href="#">Point 8: Piezometer South End Lined Dam</a>	Groundwater quality monitoring. Standing water level monitoring		Groundwater sample. Groundwater level m'mnt.	Soil control point "EPA 8" on site map.	Test																		
					unit of measure	metres	mg/L	mg/L	µs/cm	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L							
					frequency	every 6 months																	
					sampling method	inspection																	
																			Groundwater Last sampled	20/09/2020	Next due	20/09/2021	
																			Standing depth last completed	16/10/2020	Next due	16/04/2021	
<a href="#">Point 9: Piezometer South West End Row 8 Touriga 13</a>	Groundwater quality monitoring. Standing water level monitoring		Groundwater sample. Groundwater level m'mnt.	Soil control point "EPA 9" on site map.	Test																		
					unit of measure	metres	mg/L	mg/L	µs/cm	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L							
					frequency	every 6 months																	
					sampling method	inspection																	
																			Groundwater Last sampled	20/09/2020	Next due	20/09/2021	
																			Standing depth last completed	16/10/2020	Next due	16/04/2021	
<a href="#">Point 10: Piezometer South West Point F128 dam</a>	Groundwater quality monitoring. Standing water level monitoring		Groundwater sample. Groundwater level m'mnt.	Soil control point "EPA 10" on site map.	Test																		
					unit of measure	metres	mg/L	mg/L	µs/cm	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L							
					frequency	every 6 months																	
					sampling method	inspection																	
																			Groundwater Last sampled	20/09/2020	Next due	20/09/2021	
																			Standing depth last update	16/10/2020	Next due	16/04/2021	
<a href="#">Point 13: Piezometer West End Old Chardonnay 6</a>	Groundwater quality monitoring. Standing water level monitoring		Groundwater sample. Groundwater level m'mnt.	Soil control point "EPA 13" on site map.	Test																		
					unit of measure	metres	mg/L	mg/L	µs/cm	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L							
					frequency	every 6 months																	
					sampling method	inspection																	
																			Groundwater Last sampled	20/09/2020	Next due	20/09/2021	
																			Standing depth last completed	16/10/2020	Next due	16/04/2021	

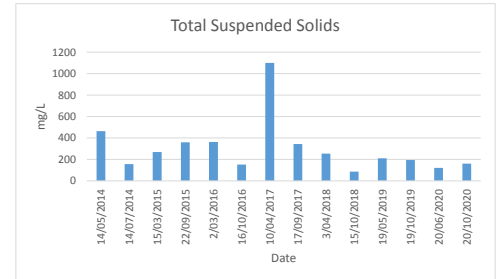
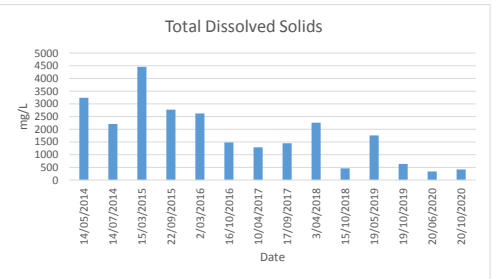
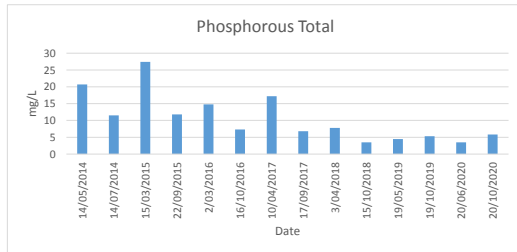
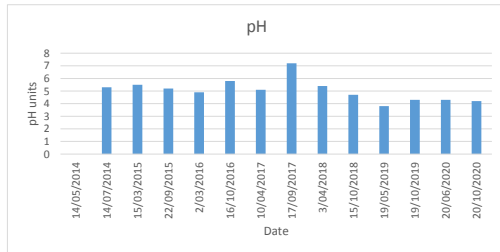
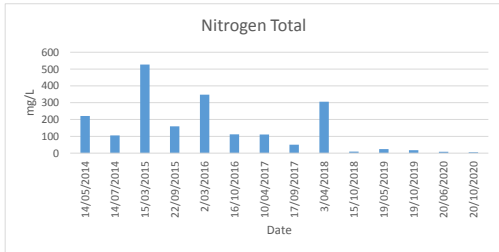
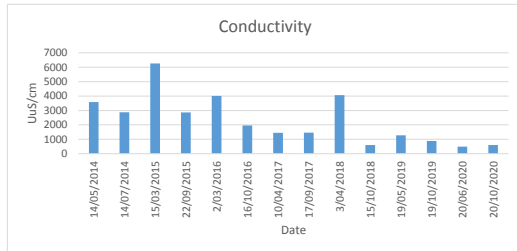
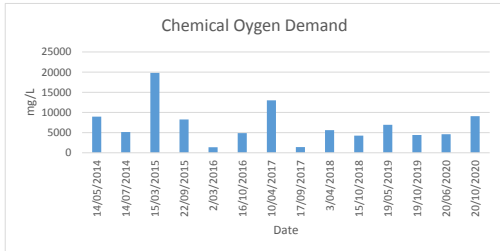
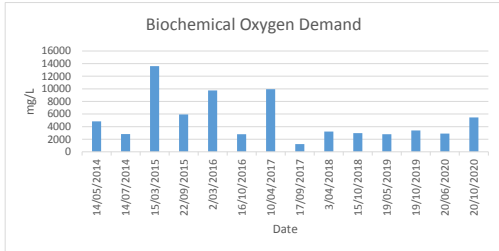
**Point 1: Influent Quality Monitoring**

Date Sampled				14/05/2014	14/06/2014	14/07/2014	15/03/2015	22/09/2015	2/03/2016	16/10/2016	10/04/2017	17/09/2017	3/04/2018	15/10/2018	19/05/2019	19/10/2019	20/06/2020	20/10/2020
Date results obtained																3/08/2020	5/11/2020	
Type of Test	Name of Test	Test	Units															
Quality monitoring	Biological oxygen demand	BOD	mg/L	31800	3260	4950	12400	3320	7920	6190	9210	13300	2680	2710	2650	2870	1290	1060
Quality monitoring	Chemical oxygen demand	COD	mg/L	74900	5820	5060	21400	5850	13700	10400	13000	25200	5130	4020	4490	4220	2320	1770
Quality monitoring	Electrical conductivity	EC	µs/cm	11800	1020	2900	3290	7330	6610	3540	1450	3560	1100	612	1600	1110	615	530
Quality monitoring	Nitrogen	N (total)	mg/L	717	13	103	286	27	420	582	127	518	45	10	20	25	11	6
Quality monitoring	pH	pH	n/a	n/a	5.3	4.1	12.4	6	9.8	5.4	9.7	6.1	5	3.7	4.1	9.6	5.3	
Quality monitoring	Phosphorus	P (total)	mg/L	47	2.8	11.2	23.2	5.69	14.4	12.9	17.3	23	6.02	3.26	3.16	7.03	1.39	2.64
Quality monitoring	Sodium absorption ratio	SAR	SAR	<1	2	2	1	2	2	3	2	1	1	2	1	9	3	
Quality monitoring	Total dissolved solids	TDS	mg/L	11700	1280	2140	3310	6250	7240	1960	1240	7070	788	576	2160	1120	418	371
Quality monitoring	Total suspended solids	TSS	mg/L	25400	254	144	2410	322	1310	312	945	1980	458	110	243	476	215	174



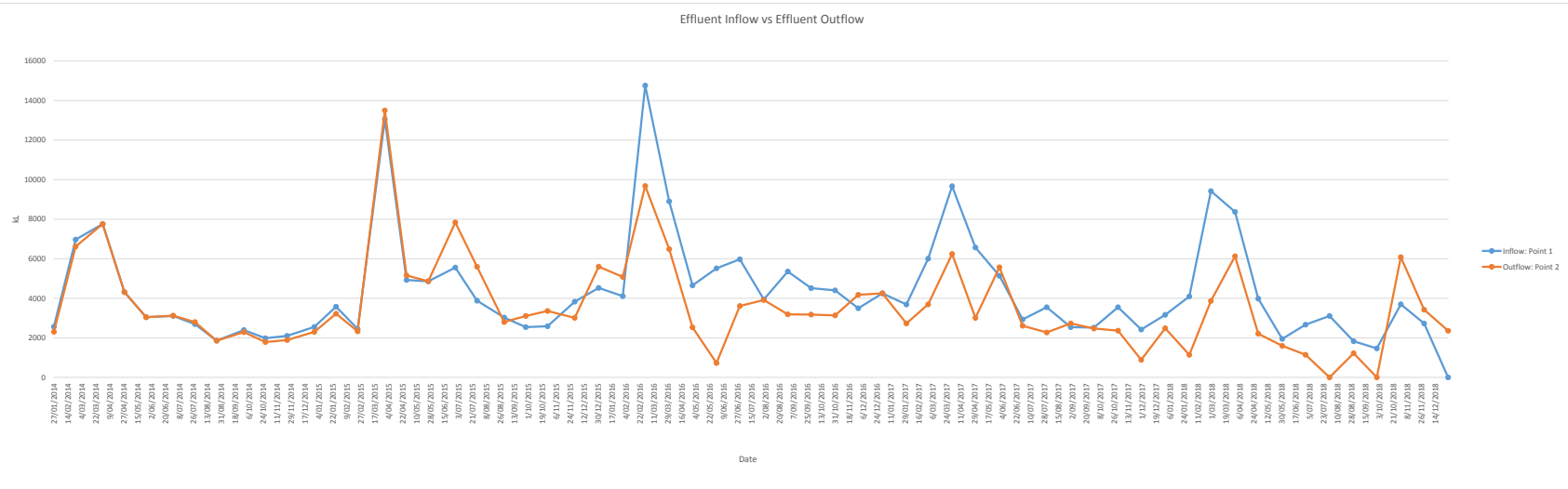
**Point 2: Effluent Quality Monitoring**

Date Sampled				14/05/2014	14/07/2014	15/03/2015	22/09/2015	2/03/2016	16/10/2016	10/04/2017	17/09/2017	3/04/2018	15/10/2018	19/05/2019	19/10/2019	3/08/2020	20/10/2020
Date results obtained															3/08/2020	5/11/2020	
Type of Test	Name of Test	Test	Units														
Quality monitoring	Biological oxygen demand	BOD	mg/L	4830	2820	13600	5920	9730	2800	9930	1220	3220	2970	2800	3380	2880	5450
Quality monitoring	Chemical oxygen demand	COD	mg/L	8940	5160	19800	8260	1350	4860	13000	1410	5620	4250	6950	4400	4600	9080
Quality monitoring	Electrical conductivity	EC	µs/cm	3580	2870	6260	2860	4010	1960	1450	1460	4060	600	1280	884	493	597
Quality monitoring	Nitrogen	N (total)	mg/L	221	105	527	159	348	112	111	50	306	9	24	18	8	5
Quality monitoring	pH	pH	pH		5.3	5.5	5.2	4.9	5.8	5.1	7.2	5.4	4.7	3.8	4.3	4.3	4.2
Quality monitoring	Phosphorus	P (total)	mg/L	20.7	11.5	27.4	11.8	14.8	7.33	17.2	6.79	7.79	3.47	4.49	5.3	3.49	5.81
Quality monitoring	Sodium absorption ratio	SAR	SAR	1	2	1	1	2	6	2	4	1	1	1	1	3	
Quality monitoring	Total dissolved solids	TDS	mg/L	3240	2210	4460	2770	2620	1480	1290	1450	2260	458	1760	632	337	418
Quality monitoring	Total suspended solids	TSS	mg/L	464	156	269	360	363	152	1100	343	255	86	211	195	121	161



**Influent (inflow) vs Effluent**

Date	Inflow: Point 1	Outflow: Point 2
27/01/2014	2566	2309
24/02/2014	6970	6622
31/03/2014	7760	7760
28/04/2014	4315	4316
26/05/2014	3043	3044
30/06/2014	3110	3122
28/07/2014	2698	2798
25/08/2014	1854	1854
29/09/2014	2391	2290
27/10/2014	1979	1787
24/11/2014	2100	1890
23/12/2014	2554	2300
16/01/2015	3578	3220
23/02/2015	2451	2330
30/03/2015	13047	13503
27/04/2015	4927	5155
25/05/2015	4858	4865
29/06/2015	5558	7839
27/07/2015	3882	5593
31/08/2015	3027	2800
28/09/2015	2543	3110
26/10/2015	2584	3360
30/11/2015	3826	3010
31/12/2015	4524	5600
31/01/2016	4110	5080
29/02/2016	14760	9680
31/03/2016	8900	6490
30/04/2016	4651	2530
31/05/2016	5515	730
30/06/2016	5971	3610
31/07/2016	3942	3914
31/08/2016	5354	3190
30/09/2016	4515	3174
31/10/2016	4398	3135
30/11/2016	3497	4176
31/12/2016	4249	4253
31/01/2017	3685	2728
28/02/2017	6000	3692
31/03/2017	9669	6242
30/04/2017	6570	3010
31/05/2017	5140	5567
30/06/2017	2932	2610
31/07/2017	3546	2270
31/08/2017	2543	2730
30/09/2017	2518	2472
31/10/2017	3546	2364
30/11/2017	2422	886
31/12/2017	3165	2484
31/01/2018	4089	1141
28/02/2018	9422	3867
31/03/2018	8370	6126
30/04/2018	3984	2207
31/05/2018	1944	1595
30/06/2018	2669	1146
31/07/2018	3107	0
31/08/2018	1827	1219
30/09/2018	1465	0
31/10/2018	3696	6080
30/11/2018	2724	3421
31/12/2018	0	2357

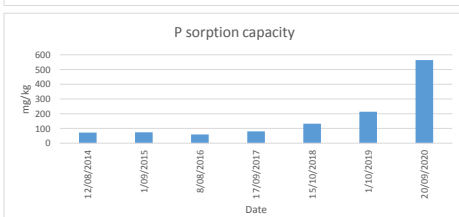
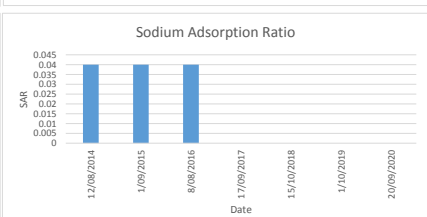
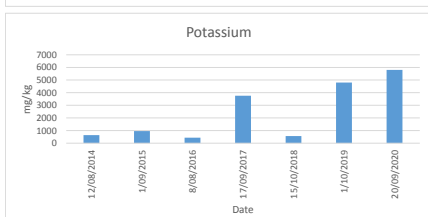
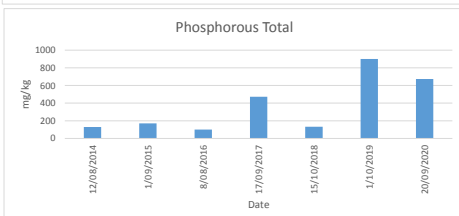
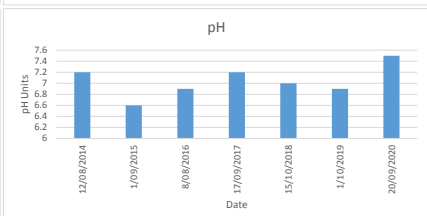
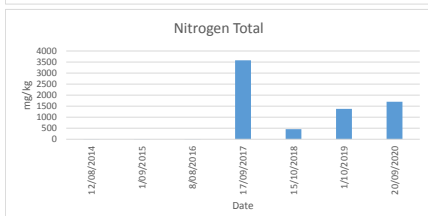
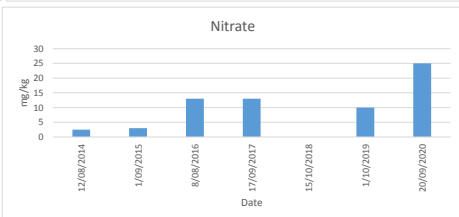
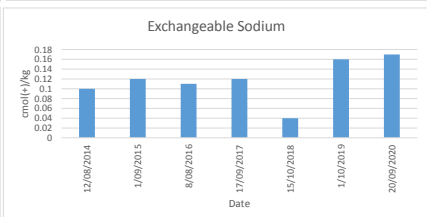
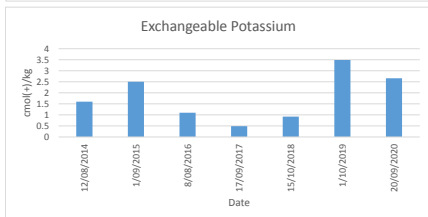
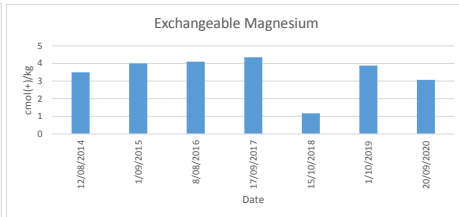
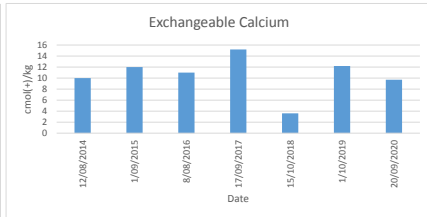
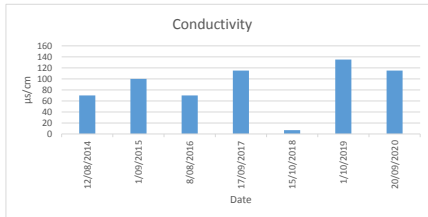


went to winter storage

had to pump out of winter storage

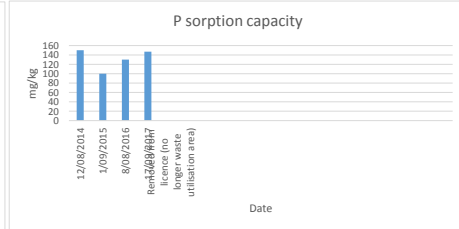
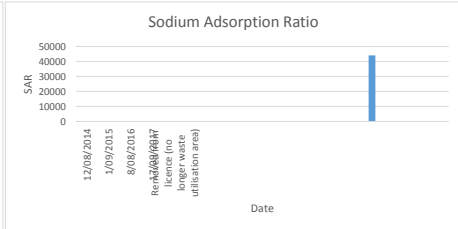
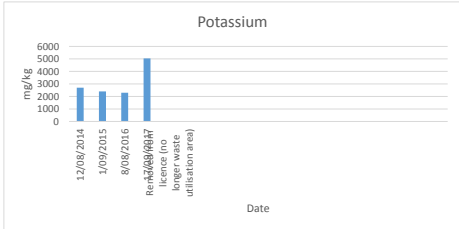
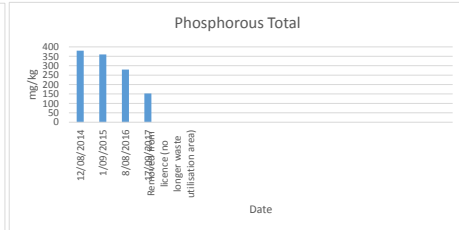
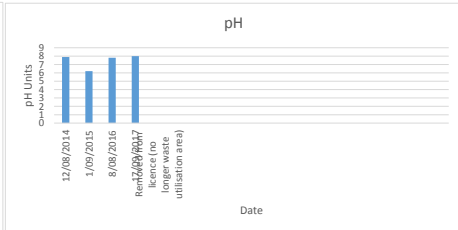
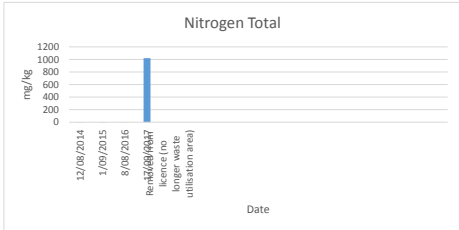
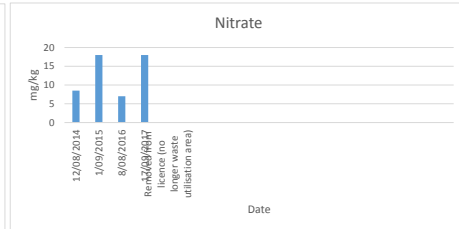
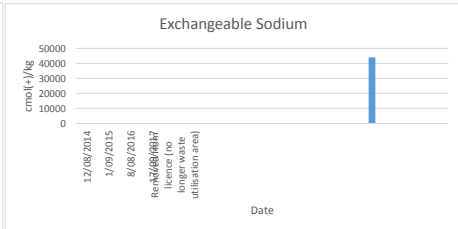
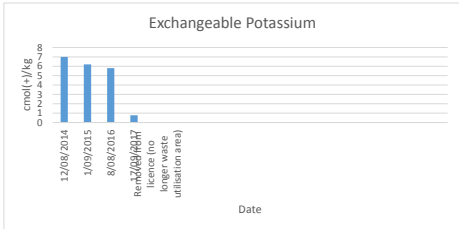
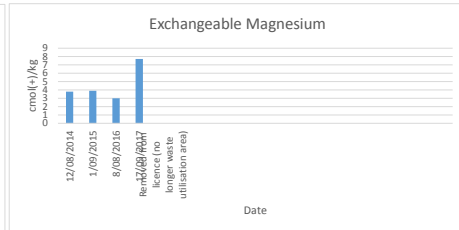
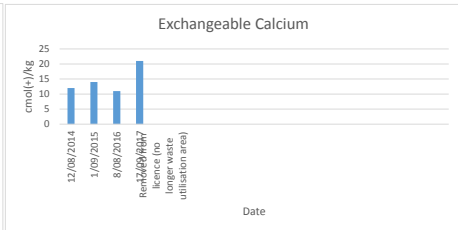
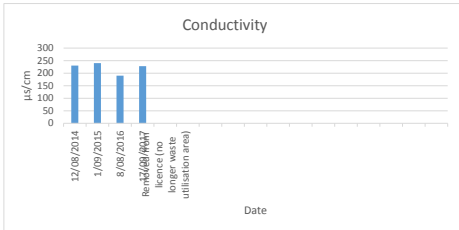
**Point 3: Soil Test Results Chardonnay 7**

Date Sampled				12/08/2014	1/09/2015	8/08/2016	17/09/2017	15/10/2018	1/10/2019	20/09/2020										
Date results obtained									14/11/2019	20/10/2020										
Type of Test	Name of Test	Test	Units																	
Quality monitoring	Electrical conductivity	EC	µs/cm	70	100	70	115	7	135	115										
Quality monitoring	Exchangeable calcium	Exch. Ca	cmolt+/kg	10	12	11	15.2	3.6	12.2	9.7										
Quality monitoring	Exchangeable magnesium	Exch. Mg	cmolt+/kg	3.5	4	4.1	4.35	1.17	3.88	3.07										
Quality monitoring	Exchangeable potassium	Exch. K	cmolt+/kg	1.6	2.5	1.1	0.49	0.92	3.49	2.66										
Quality monitoring	Exchangeable sodium	Exch. Na	cmolt+/kg	0.1	0.12	0.11	0.12	0.04	0.16	0.17										
Quality monitoring	Nitrate nitrogen	Nitrate	mg/kg	2.5	3	33	13	5	10	25										
Quality monitoring	Total nitrogen	N (total)	mg/kg	1	2	1	3580	458	1380	1700										
Quality monitoring	pH	pH	pH	7.2	6.6	6.9	7.2	7	6.9	7.5										
Quality monitoring	Total phosphorus	P (total)	mg/kg	130	170	100	472	132	900	673										
Quality monitoring	Potassium	K	mg/kg	640	960	440	3760	563	4800	5800										
Quality monitoring	Sodium adsorption ratio	SAR	SAR	0.04	0.04	0.04	<1	<1	<1	<1										
Quality monitoring	P sorption capacity	P sorption capacity	mg/kg	72	74	59	80	132	214	564										



**Point 4: Soil Test Results Canada Muscat 11**

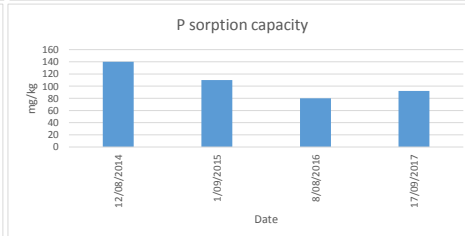
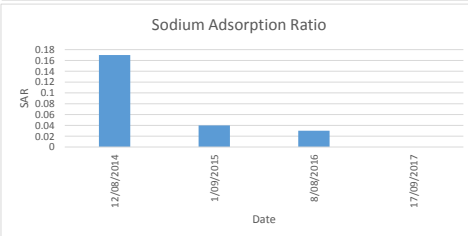
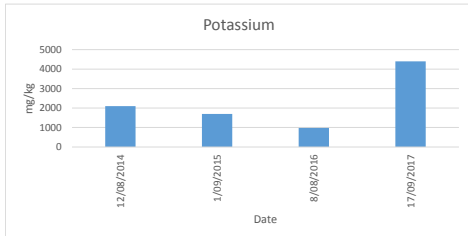
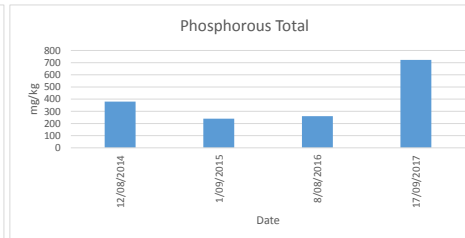
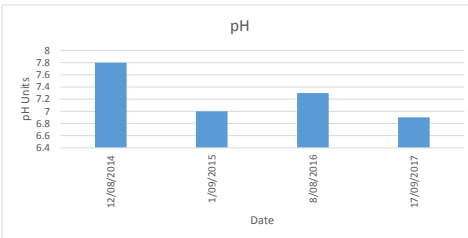
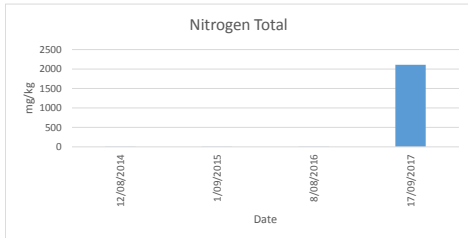
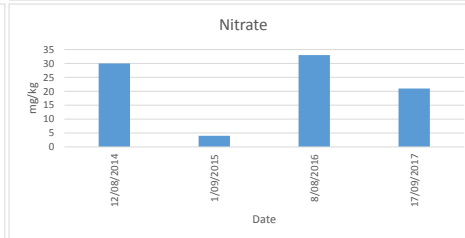
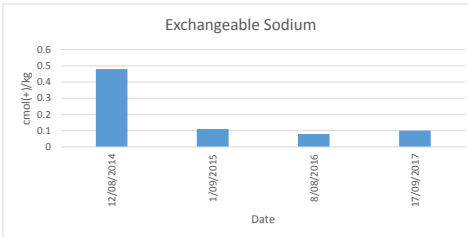
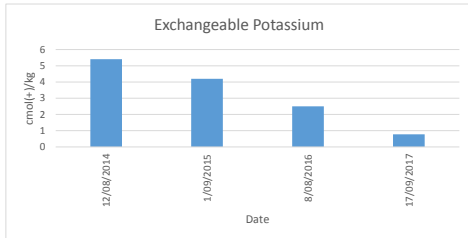
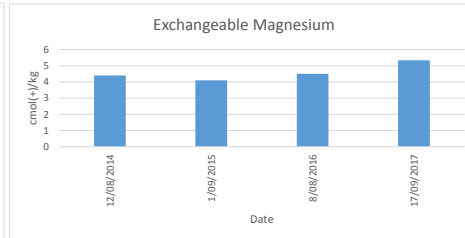
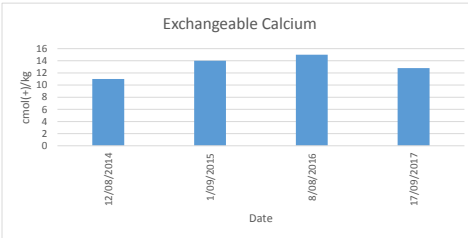
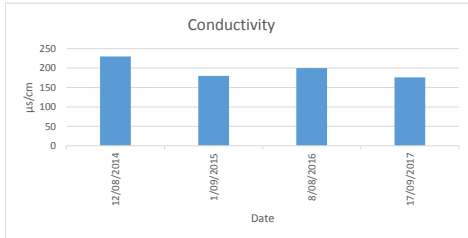
Type of Test	Name of Test	Test	Units	Date				Removed from licence (no longer waste utilisation area)												
				12/08/2014	1/09/2015	8/08/2016	17/09/2017													
Quality monitoring	Electrical conductivity	EC	$\mu\text{s/cm}$	230	240	190	228													
Quality monitoring	Exchangeable calcium	Exch. Ca	$\text{cmol}(+)/\text{kg}$	12	14	11	21													
Quality monitoring	Exchangeable magnesium	Exch. Mg	$\text{cmol}(+)/\text{kg}$	3.8	3.9	3	7.72													
Quality monitoring	Exchangeable potassium	Exch. K	$\text{cmol}(+)/\text{kg}$	7	6.2	5.8	0.78													
Quality monitoring	Exchangeable sodium	Exch. Na	$\text{cmol}(+)/\text{kg}$	1.3	0.31	0.48	1.05													
Quality monitoring	Nitrate nitrogen	Nitrate	$\text{mg/kg}$	8.5	18	7	18													#####
Quality monitoring	Total nitrogen	N (total)	$\text{mg/kg}$	1.5	4	2	1020													
Quality monitoring	pH	pH		7.9	6.2	7.8	8													
Quality monitoring	Total phosphorus	P (total)	$\text{mg/kg}$	380	360	280	153													
Quality monitoring	Potassium	K	$\text{mg/kg}$	2700	2400	2300	5040													
Quality monitoring	Sodium absorption ratio	SAR	SAR	0.46	0.1	0.18	1													#####
Quality monitoring	P sorption capacity	P sorption capacity	$\text{mg/kg}$	150	100	130	147													



**Point 5: Soil Test Results Red Frontignac 12**

Date

Type of Test	Name of Test	Test	Units	12/08/2014	1/09/2015	8/08/2016	17/09/2017											
Quality monitoring	Electrical conductivity	EC	µs/cm	230	180	200	176	Removed from Licence (no longer waste utilisation area)										
Quality monitoring	Exchangeable calcium	Exch. Ca	cmol(+)/kg	11	14	15	12.8											
Quality monitoring	Exchangeable magnesium	Exch. Mg	cmol(+)/kg	4.4	4.1	4.5	5.34											
Quality monitoring	Exchangeable potassium	Exch. K	cmol(+)/kg	5.4	4.2	2.5	0.78											
Quality monitoring	Exchangeable sodium	Exch. Na	cmol(+)/kg	0.48	0.11	0.08	0.1											
Quality monitoring	Nitrate nitrogen	Nitrate	mg/kg	30	4	33	21											
Quality monitoring	Total nitrogen	N (total)	mg/kg	1.9	3	3	2110											
Quality monitoring	pH	pH		7.8	7	7.3	6.9											
Quality monitoring	Total phosphorus	P (total)	mg/kg	380	240	260	722											
Quality monitoring	Potassium	K	mg/kg	2100	1700	980	4400											
Quality monitoring	Sodium adsorption ratio	SAR		0.17	0.04	0.03	<1											
Quality monitoring	P sorption capacity	P sorption capacity	mg/kg	140	110	80	92											

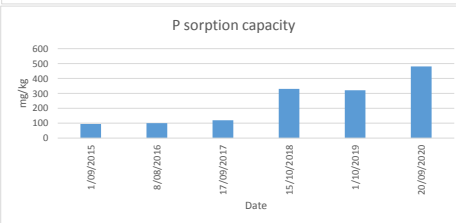
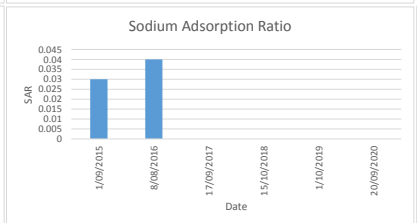
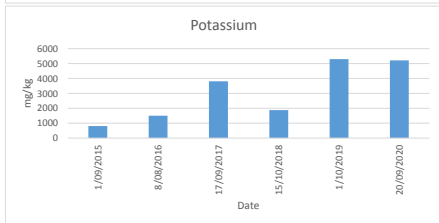
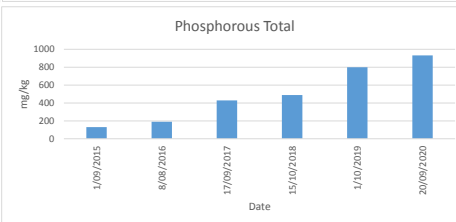
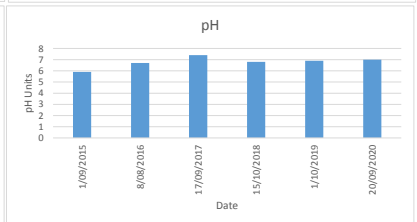
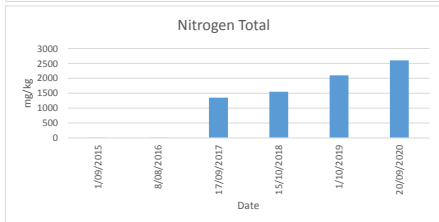
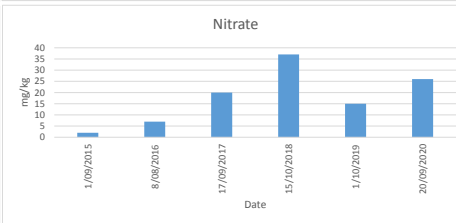
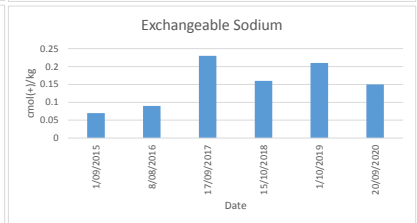
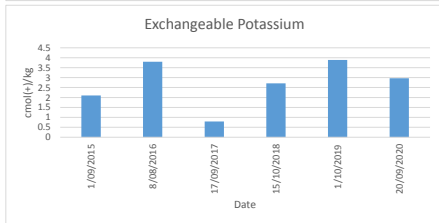
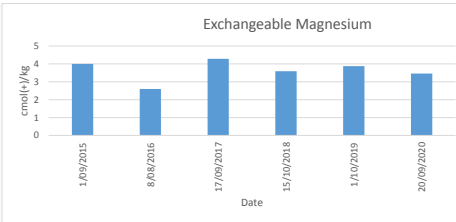
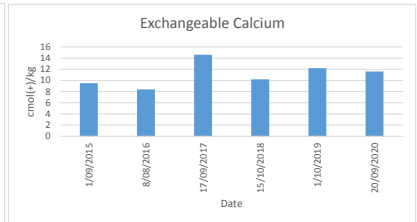
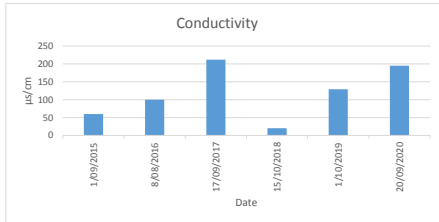




**Point 11: Soil Test Results Old Chardonnay 5**

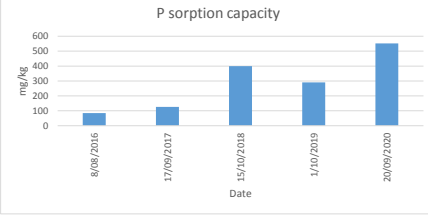
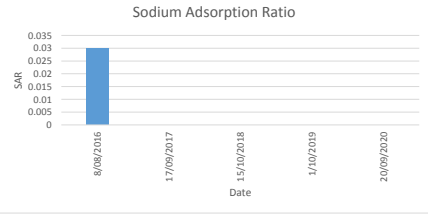
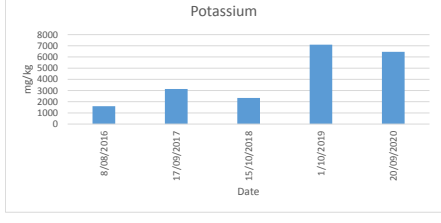
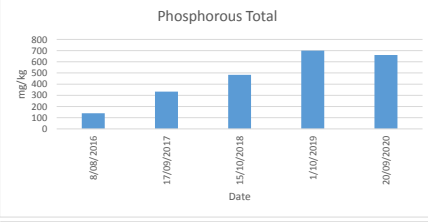
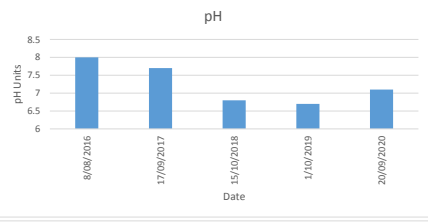
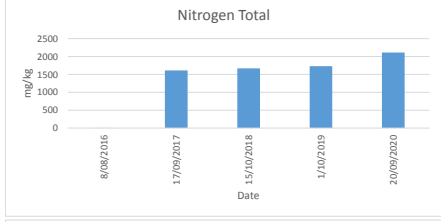
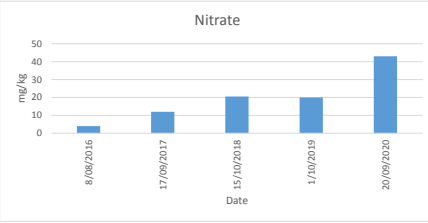
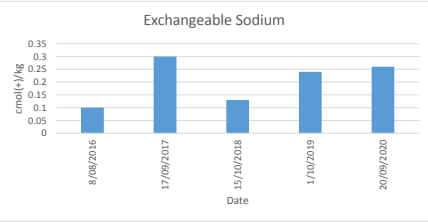
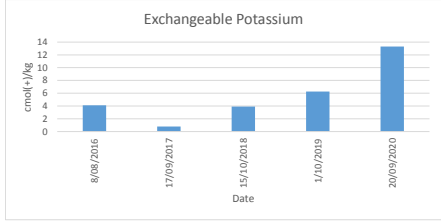
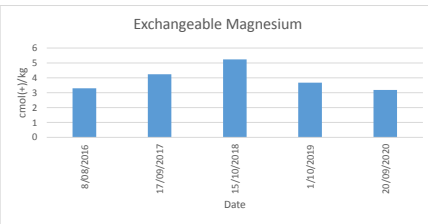
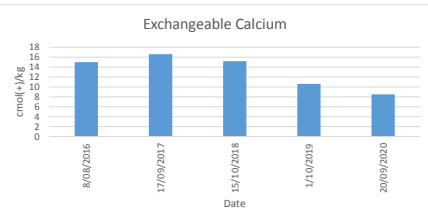
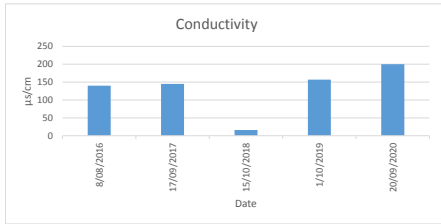
Date

Date Sampled				1/09/2015	8/08/2016	17/09/2017	15/10/2018	1/10/2019	20/09/2020											
Date results obtained								14/11/2019	20/10/2020											
Type of Test	Name of Test	Test	Units																	
Quality monitoring	Electrical conductivity	EC	µs/cm	60	100	212	20	129	195											
Quality monitoring	Exchangeable calcium	Exch. Ca	cmol(+)/kg	9.5	8.4	14.6	10.2	12.2	11.6											
Quality monitoring	Exchangeable magnesium	Exch. Mg	cmol(+)/kg	4	2.6	4.29	3.59	3.88	3.46											
Quality monitoring	Exchangeable potassium	Exch. K	cmol(+)/kg	2.1	3.8	0.79	2.71	3.89	2.97											
Quality monitoring	Exchangeable sodium	Exch. Na	cmol(+)/kg	0.07	0.09	0.23	0.16	0.21	0.15											
Quality monitoring	Nitrate nitrogen	Nitrate	mg/kg	2	7	20	37	15	26											
Quality monitoring	Total nitrogen	N (total)	mg/kg	2	5	1350	1550	2100	2600											
Quality monitoring	pH	pH	pH	5.9	6.7	7.4	6.8	6.9	7											
Quality monitoring	Total phosphorus	P (total)	mg/kg	130	190	428	488	800	931											
Quality monitoring	Potassium	K	mg/kg	810	1500	3810	1880	5300	5210											
Quality monitoring	Sodium adsorption ratio	SAR		0.03	0.04	<1	<1	<1	<1											
Quality monitoring	P sorption capacity	P sorption capacity	mg/kg	95	100	120	330	321	481											



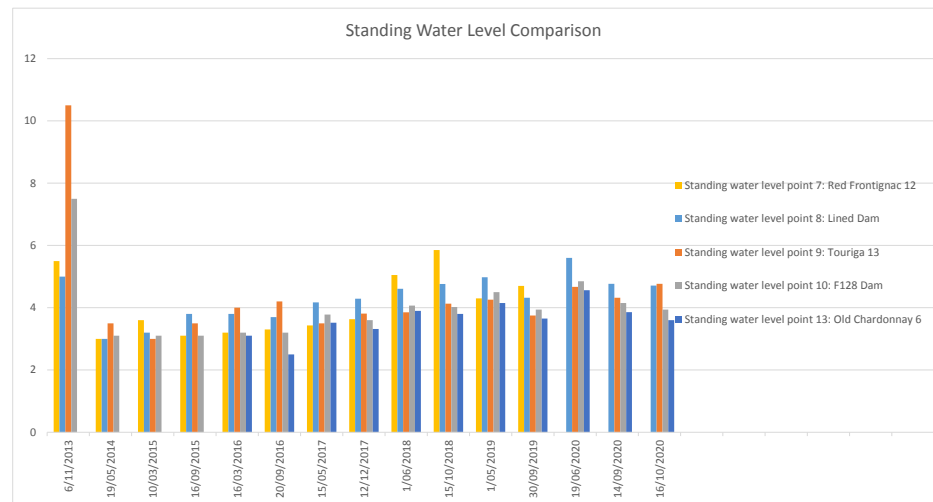
**Point 12: Soil Test Results Old Chardonnay 6**

Date Sampled				8/08/2016	17/09/2017	15/10/2018	1/10/2019	20/09/2020												
Date results obtained																				
Type of Test	Name of Test	Test	Units																	
Quality monitoring	Electrical conductivity	EC	µs/cm	140	145	16	157	200												
Quality monitoring	Exchangeable calcium	Exch. Ca	cmol(+)/kg	15	16.6	15.2	10.6	8.5												
Quality monitoring	Exchangeable magnesium	Exch. Mg	cmol(+)/kg	3.3	4.24	5.24	3.68	3.19												
Quality monitoring	Exchangeable potassium	Exch. K	cmol(+)/kg	4.1	0.78	3.91	6.27	13.3												
Quality monitoring	Exchangeable sodium	Exch. Na	cmol(+)/kg	0.1	0.3	0.13	0.24	0.26												
Quality monitoring	Nitrate nitrogen	Nitrate	mg/kg	4	12	20.5	20	43												
Quality monitoring	Total nitrogen	N (total)	mg/kg	2	1610	1670	1730	2110												
Quality monitoring	pH	pH	pH	8	7.7	6.8	6.7	7.1												
Quality monitoring	Total phosphorus	P (total)	mg/kg	140	333	483	700	661												
Quality monitoring	Potassium	K	mg/kg	1600	3140	2340	7100	6460												
Quality monitoring	Sodium absorption ratio	SAR	SAR	0.03	<1	<1	<1	<1												
Quality monitoring	P sorption capacity	P sorption capacity	mg/kg	85	126	400	291	552												



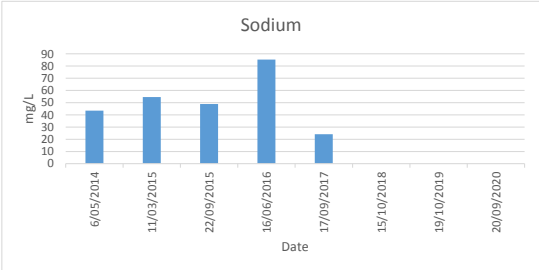
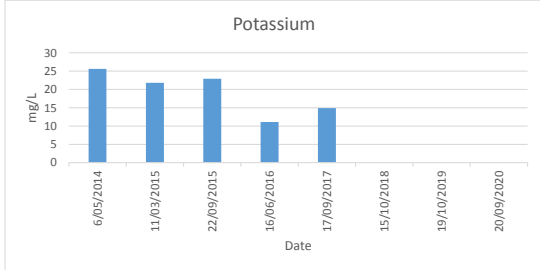
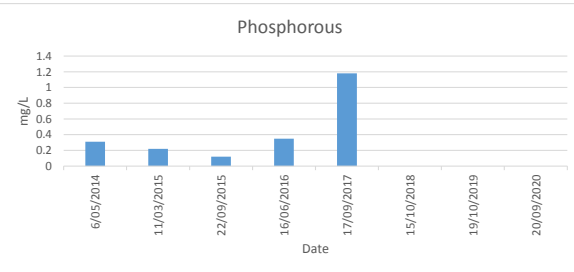
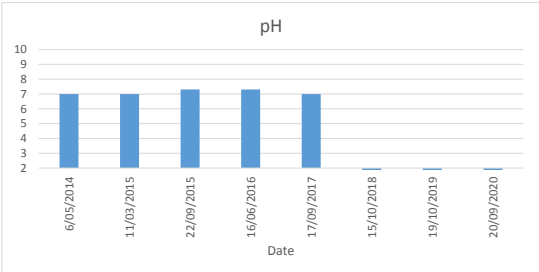
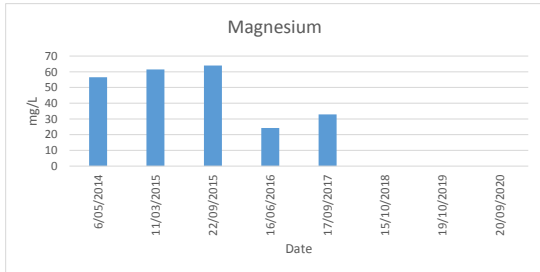
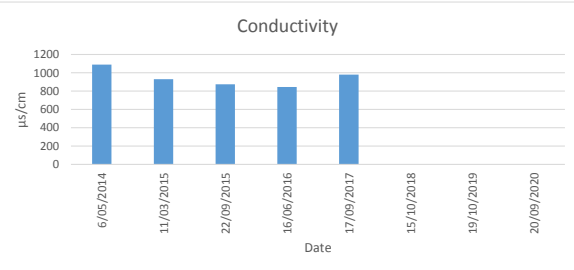
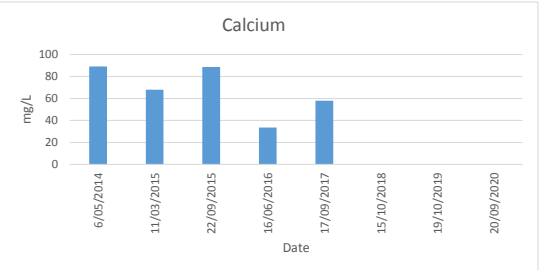
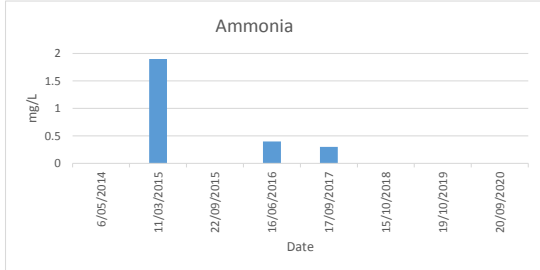
**Piezometer Standing Water Levels: depth in metres below surface**

Date	Standing water level point 7: Red Frontignac 12	Standing water level point 8: Lined Dam	Standing water level point 9: Touriga 13	Standing water level point 10: F128 Dam	Standing water level point 13: Old Chardonnay 6	comments
6/11/2013	5.5	5	10.5	7.5		
19/05/2014	3	3	3.5	3.1		
10/03/2015	3.6	3.2	3	3.1		
16/09/2015	3.1	3.8	3.5	3.1		
16/03/2016	3.2	3.8	4	3.2	3.1	
20/09/2016	3.3	3.7	4.2	3.2	2.5	
15/05/2017	3.43	4.17	3.5	3.78	3.52	
12/12/2017	3.63	4.29	3.81	3.6	3.32	
1/06/2018	5.05	4.61	3.85	4.07	3.9	
15/10/2018	5.85	4.76	4.13	4.02	3.8	
1/05/2019	4.3	4.98	4.26	4.5	4.15	
30/09/2019	4.7	4.32	3.75	3.94	3.65	
19/06/2020	n/a	5.6	4.67	4.85	4.56	no water in point 7 or point 8
14/09/2020	n/a	4.77	4.32	4.15	3.86	no water in point 7 water low and dirty point 8
16/10/2020	n/a	4.71	4.77	3.94	3.6	no water in point 7



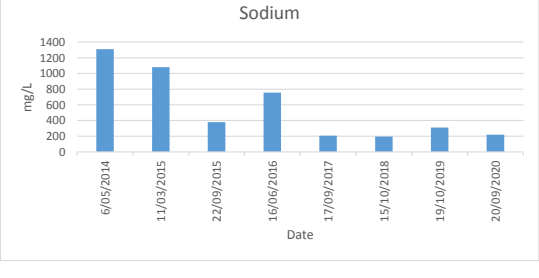
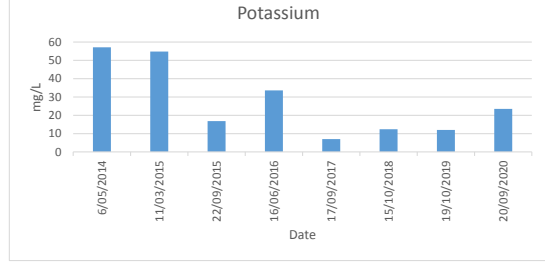
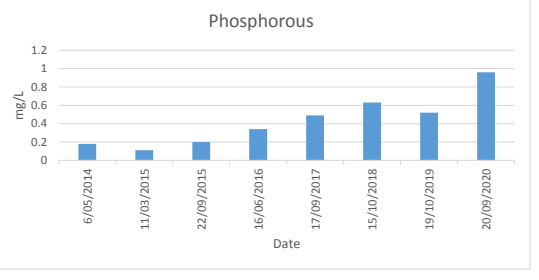
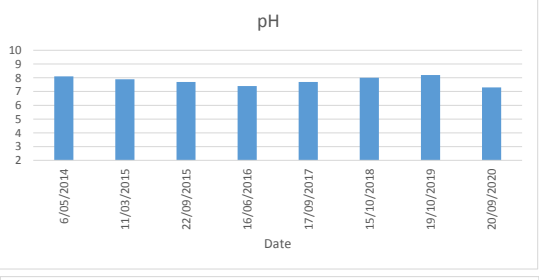
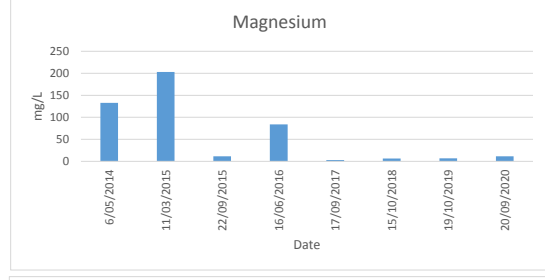
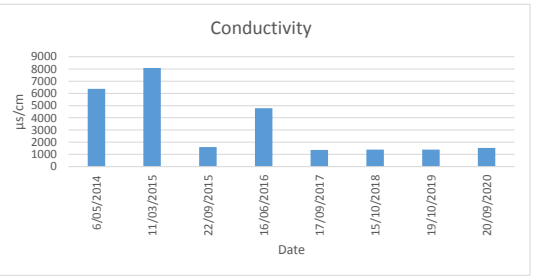
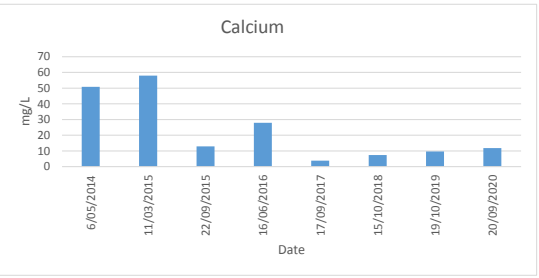
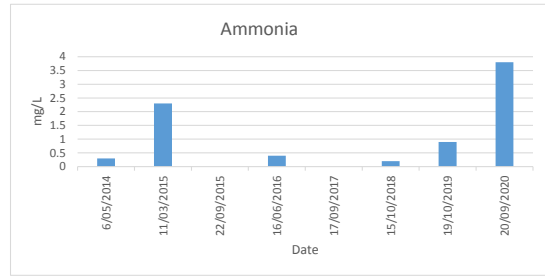
**Point 7: Piezometer Water Quality Test Results Red Frontignac 12 Row 1**

				Date															
Date Sampled				6/05/2014	11/03/2015	22/09/2015	16/06/2016	17/09/2017	15/10/2018	19/10/2019	20/09/2020								
Date results obtained																			
Type of Test	Name of Test	Test	Units																
Quality monitoring	Ammonium nitrogen	ammonia	mg/L	<0.2	1.9	<0.2	0.4	0.3	n/a	n/a	n/a								
Quality monitoring	Calcium	Ca	mg/L	89.1	67.9	88.6	33.5	57.9	n/a	n/a	n/a								
Quality monitoring	Electrical conductivity	EC	µs/cm	1090	931	874	845	980	n/a	n/a	n/a								
Quality monitoring	Magnesium	Mg	mg/L	56.5	61.5	64	24.3	32.9	n/a	n/a	n/a								
Quality monitoring	Nitrate nitrogen	N( nitrate)	mg/L	<0.5	<1	<0.5	<0.1	4.4	n/a	n/a	n/a								
Quality monitoring	Total nitrogen	N(total)	mg/L	2	<2	2	2	6	n/a	n/a	n/a								
Quality monitoring	pH	pH		7	7	7.3	7.3	7	n/a	n/a	n/a								
Quality monitoring	Phosphorus	P	mg/L	0.31	0.22	0.12	0.35	1.18	n/a	n/a	n/a								
Quality monitoring	Potassium	K	mg/L	25.6	21.8	22.9	11.1	14.9	n/a	n/a	n/a								
Quality monitoring	Sodium	Na	mg/L	43.4	54.6	48.9	85.2	24.1	n/a	n/a	n/a								



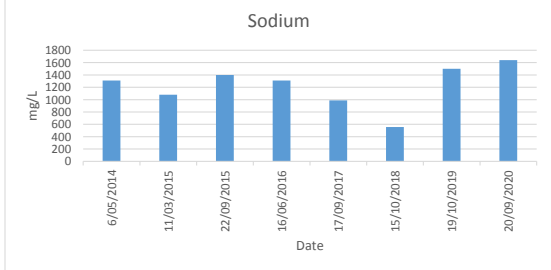
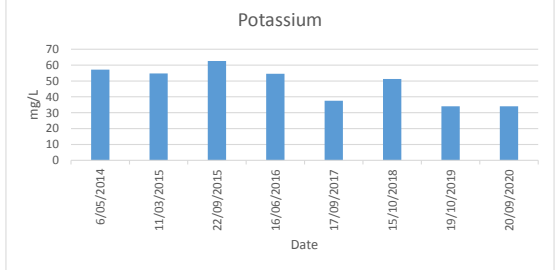
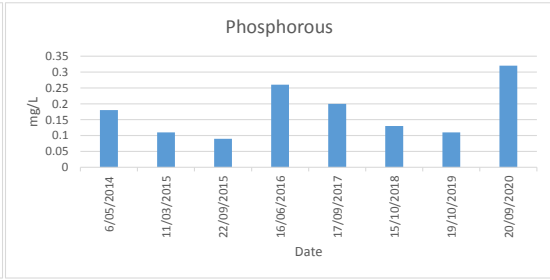
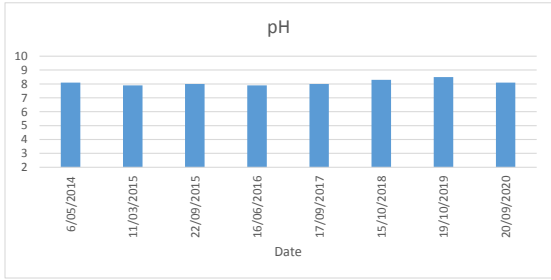
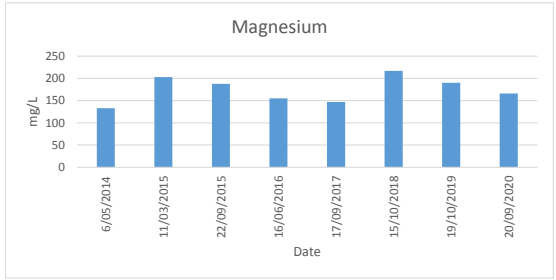
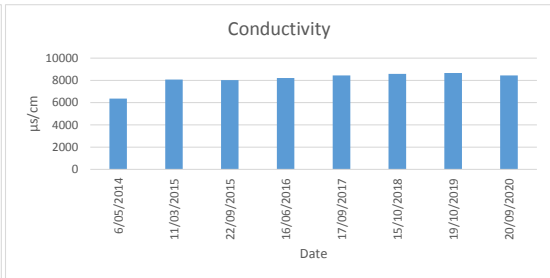
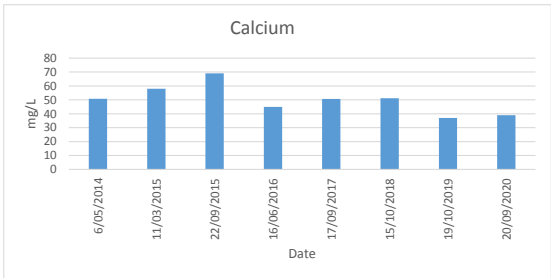
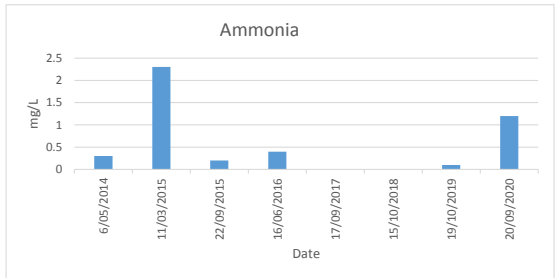
**Point 8: Piezometer Water Quality Test Results Lined Dam SW End**

Date Sampled				6/05/2014	11/03/2015	22/09/2015	16/06/2016	17/09/2017	15/10/2018	19/10/2019	20/09/2020									
Date results obtained										14/11/2019	19/10/2020									
Type of Test	Name of Test	Test	Units																	
Quality monitoring	Ammonium nitrogen	ammonia	mg/L	0.3	2.3	<0.2	0.4	<0.1	0.2	0.9	3.8									
Quality monitoring	Calcium	Ca	mg/L	50.8	58	12.9	27.9	3.81	7.37	9.6	11.8									
Quality monitoring	Electrical conductivity	EC	µs/cm	6370	8080	1600	4790	1360	1390	1400	1530									
Quality monitoring	Magnesium	Mg	mg/L	133	203	11.4	84	2.85	6.43	6.7	11.5									
Quality monitoring	Nitrate nitrogen	N( nitrate)	mg/L	<0.5	<1.0	<0.5	1.1	<0.1	0.2	<1										
Quality monitoring	Total nitrogen	N(total)	mg/L	2	<2	2	3	2	5	52	24									
Quality monitoring	pH	pH	pH	8.1	7.9	7.7	7.4	7.7	8	8.2	7.3									
Quality monitoring	Phosphorus	P	mg/L	0.18	0.11	0.2	0.34	0.49	0.63	0.52	0.96									
Quality monitoring	Potassium	K	mg/L	57.1	54.8	16.8	33.6	7	12.4	12	23.5									
Quality monitoring	Sodium	Na	mg/L	1310	1080	380	756	206	196	310	219									



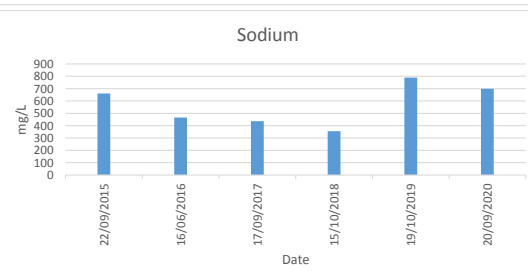
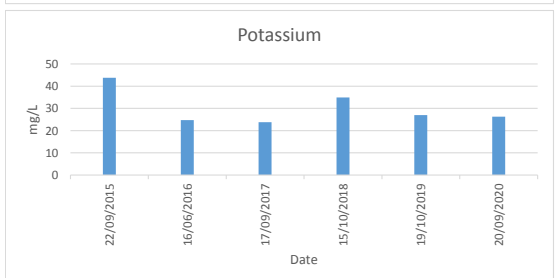
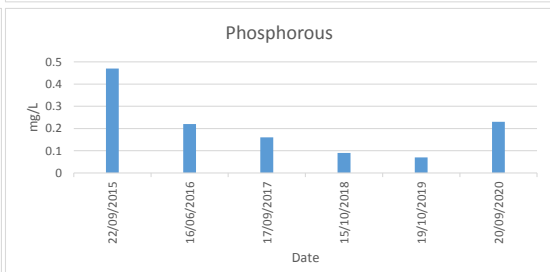
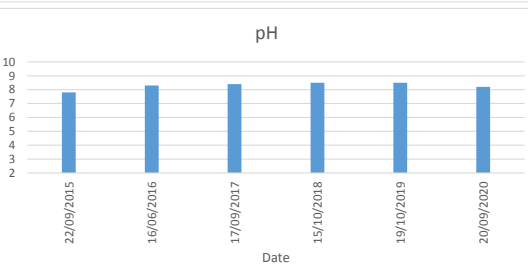
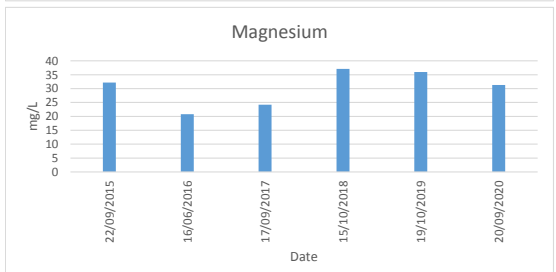
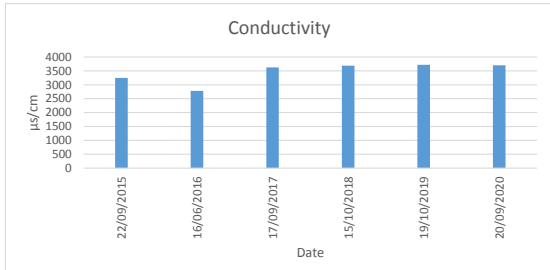
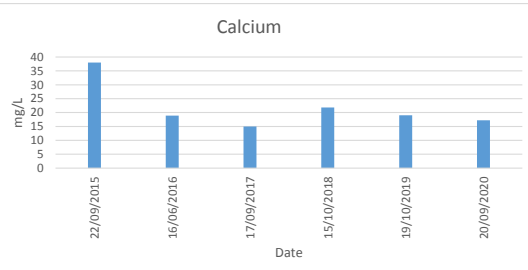
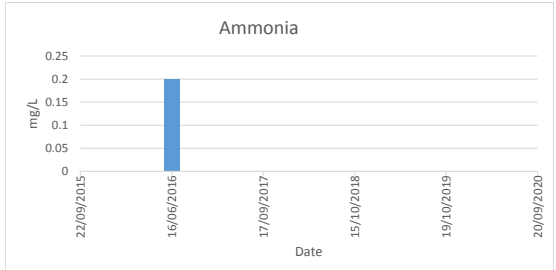
**Point 9: Piezometer Water Quality Test Results Touriga SW End**

Date Sampled				6/05/2014	11/03/2015	22/09/2015	16/06/2016	17/09/2017	15/10/2018	19/10/2019	20/09/2020									
Date results obtained										14/11/2019	19/10/2020									
Type of Test	Name of Test	Test	Units																	
Quality monitoring	Ammonium nitrogen	ammonia	mg/L	0.3	2.3	0.2	0.4	<0.1	<0.1	0.1	1.2									
Quality monitoring	Calcium	Ca	mg/L	50.8	58	69	44.9	50.7	51.2	37	39									
Quality monitoring	Electrical conductivity	EC	µs/cm	6370	8080	8030	8210	8450	8580	8670	8440									
Quality monitoring	Magnesium	Mg	mg/L	133	203	188	155	147	217	190	166									
Quality monitoring	Nitrate nitrogen	N( nitrate)	mg/L	<0.5	<1	<0.5	<0.1	2.4	1.3	1	<1									
Quality monitoring	Total nitrogen	N(total)	mg/L	2	<2	<2	2	2	<2	<2	<2									
Quality monitoring	pH	pH	pH	8.1	7.9	8	7.9	8	8.3	8.5	8.1									
Quality monitoring	Phosphorus	P	mg/L	0.18	0.11	0.09	0.26	0.2	0.13	0.11	0.32									
Quality monitoring	Potassium	K	mg/L	57.1	54.8	62.6	54.5	37.5	51.3	34	34.1									
Quality monitoring	Sodium	Na	mg/L	1310	1080	1400	1310	987	557	1500	1640									



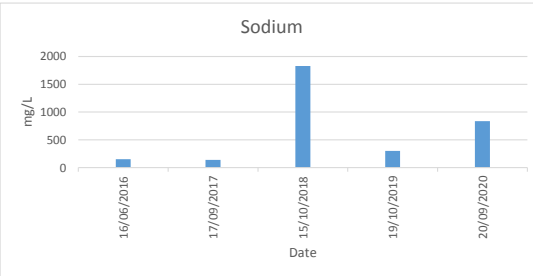
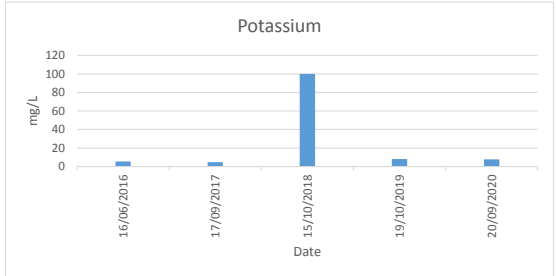
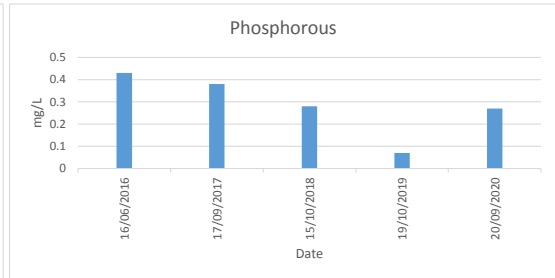
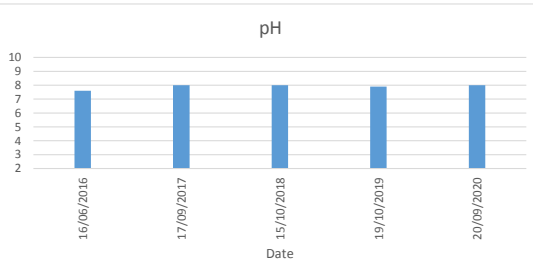
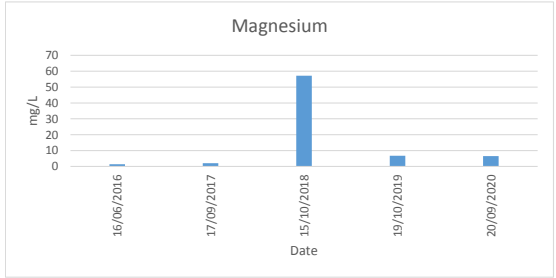
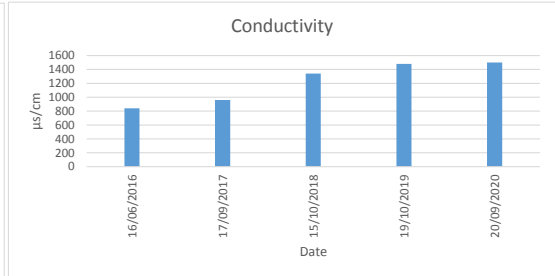
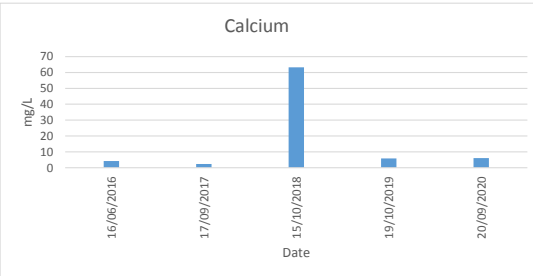
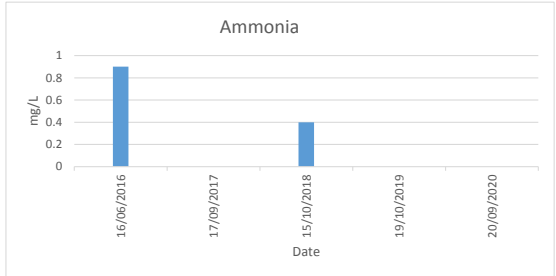
**Point 10: Piezometer Water Quality Test Results F128 Dam SW Point**

Date Sampled				22/09/2015	16/06/2016	17/09/2017	15/10/2018	19/10/2019	20/09/2020										
Date results obtained								14/11/2019	19/10/2020										
Type of Test	Name of Test	Test	units																
Quality monitoring	Ammonium nitrogen	ammonia	mg/L	<0.2	0.2	<0.1	<0.1	<0.1	<0.1										
Quality monitoring	Calcium	Ca	mg/L	38	18.9	15	21.8	19	17.2										
Quality monitoring	Electrical conductivity	EC	µs/cm	3250	2780	3630	3690	3720	3700										
Quality monitoring	Magnesium	Mg	mg/L	32.2	20.8	24.2	37.1	36	31.3										
Quality monitoring	Nitrate nitrogen	N( nitrate)	mg/L	1.6	<0.1	<0.1	0.2	<1	<1										
Quality monitoring	Total nitrogen	N(total)	mg/L	4	<2	<2	<2	<2	<2										
Quality monitoring	pH	pH	pH	7.8	8.3	8.4	8.5	8.5	8.2										
Quality monitoring	Phosphorus	P	mg/L	0.47	0.22	0.16	0.09	0.07	0.23										
Quality monitoring	Potassium	K	mg/L	43.8	24.7	23.8	34.9	27	26.3										
Quality monitoring	Sodium	Na	mg/L	661	466	436	355	790	698										



**Point 13: Piezometer Water Quality Test Results Old Chardonnay 6 SW End**

Date Sampled				16/06/2016	17/09/2017	15/10/2018	19/10/2019	20/09/2020												
Date results obtained							14/11/2019	19/10/2020												
Type of Test	Name of Test	Test	units																	
Quality monitoring	Ammonium nitrogen	ammonia	mg/L	0.9	<0.1	0.4	<0.1	<0.1												
Quality monitoring	Calcium	Ca	mg/L	4.25	2.31	63.3	5.8	6.06												
Quality monitoring	Electrical conductivity	EC	µs/cm	840	960	1340	1480	1500												
Quality monitoring	Magnesium	Mg	mg/L	1.37	2	57.2	6.7	6.47												
Quality monitoring	Nitrate nitrogen	N( nitrate)	mg/L	0.6	<0.1	0.1	<1	<1												
Quality monitoring	Total nitrogen	N(total)	mg/L	2	<2	2	<2	<2												
Quality monitoring	pH	pH	pH	7.6	8	8	7.9	8												
Quality monitoring	Phosphorus	P	mg/L	0.43	0.38	0.28	0.07	0.27												
Quality monitoring	Potassium	K	mg/L	5.6	4.8	100	8.2	7.8												
Quality monitoring	Sodium	Na	mg/L	152	140	1830	300	836												





**EPA ENVIRONMENTAL MONITORING**

Type of Monitoring Point	How Monitored	Location Description	Frequency
Odour	Odour Intensity and Descriptor Sheet; observation.	Boundary of evaporation ponds "EPA 21" & "EPA 22" on site map.	Daily (working days)

Type of Monitoring Point	How Monitored	Location Description	Frequency
Weather conditions other than rainfall - temperature, wind speed, wind direction, humidity	Handheld weather meter	Boundary of evaporation ponds "EPA 21" & "EPA 22" on site map.	Daily (working days)

Type of Monitoring Point	How Monitored	Location Description	Frequency
Rainfall	Rain gauge	Boundary of evaporation ponds "EPA 21" & "EPA 22" on site map.	Daily (working days)

Type of Monitoring Point	How Monitored	Location Description	Frequency
Biosolids Cake	Biosolids sample, laboratory analysis	Evaporation ponds sludge	As required

<b>Test Type</b>	<b>EPA Reference Points</b>	<b>Frequency of Monitoring</b>	<b>Next Sample Date</b>
Soil quality monitoring	3, 4, 5, 6, 11	Annual	September
Groundwater quality monitoring	7, 8, 9, 10	Annual	September
Groundwater standing level	7, 8, 9, 10	6 monthly	March & September
Effluent quality monitoring: inflow and outflow	1, 2	6 monthly	March & September
Effluent volume monitoring: inflow and outflow	1,2	Monthly	Monthly