Soil Quality Monitoring
Monitoring Point: 43
Monitoring Point Location: APPROVED IRRIGATION AREA
Licensee: SHOALHAVEN STARCHES PTY LTD, 160 Bolong Rd Bomaderry NSW 2541
EPA Licence Number: 883 EPA's Public Register: https://app.epa.nsw.gov.au/prpoeoapp/
Monitoring Frequency Required: ANNUAL

Sample Date	Results Obtained	Pollutant	Units	No. of samples collected & analysed	Min Value	Mean Value	Max Value
14 & 15/11/2016	18 & 20/1/2017	Cation Exchange Capacity	cmol(+)/kg soil	30	26.3	41	55.5
		Electrical Conductivity	dS/m	34	0.5	1.1	2.8
		Exchangeable sodium percentage	%	30	1.8	4.2	7.3
		Nitrate	mg/kg	34	29.1	60	114.5
		Nitrogen (total)	mg/kg	22	3700	7311	10900
		Organic Carbon	mg/kg	22	4230	8704.6	12550
		pH	pH	34	6.3	7.4	7.9
		Phosphorus (total)	mg/kg	10	24	107.3	170
7 & 8/11/2017	5 & 6/12/2017	Cation Exchange Capacity	cmol(+)/kg soil	38	11.5	39.3	55.5
		Electrical Conductivity	dS/m	38	0.4	0.8	1.6
		Exchangeable sodium percentage	%	30	1.6	3.4	5.4
		Nitrate	mg/kg	38	3.3	63.2	126.1
		Nitrogen (total)	mg/kg	28	4600	7668	11300
		Organic Carbon	mg/kg	28	4050	6172	8500
		pH	pH	38	4.2	7.3	8.1
		Phosphorus (total)	mg/kg	30	36	241	1011.4
5 & 6/11/2018	26/11/2018 and 21/12/2018	Cation Exchange Capacity	cmol(+)/kg soil	34	22	33.7	46.5
		Electrical Conductivity	dS/m	48	0.3	1	1.9
		Exchangeable sodium percentage	%	34	1.2	3.6	8.1
		Nitrate	mg/kg	36	37.6	97.1	170
		Nitrogen (total)	mg/kg	24	0.3	0.6	1
		Organic Carbon	mg/kg	24	2.3	5.2	8
		pH	pH	48	6	7.4	8
		Phosphorus (total)	mg/kg	48	50.2	167.4	420

Sample Date	Results Obtained	Pollutant	Units	No. of samples collected & analysed	Min Value	Mean Value	Max Value
12 & 13/11/2019	2/12/2019 and 3/6/2020	Cation Exchange Capacity	cmol(+)/kg soil	31	27.8	41.3	54
		Electrical Conductivity	dS/m	45	0.4	1.3	2.7
		Exchangeable sodium percentage	%	31	2.9	4.9	9
		Nitrate	mg/kg	34	13.6	63.4	125
		Nitrogen (total)	mg/kg	22	3900	7030	11000
		Organic Carbon	mg/kg	22	4400	7635	11500
		pH	pH	45	6.3	7.4	8.3
		Phosphorus (total)	mg/kg	34	22	106.8	220
9 & 10/11/2020	4/12/2020 and	Cation Exchange Capacity	cmol(+)/kg soil	38	19.5	38	60
		Electrical Conductivity	dS/m	38	0.4	0.8	1.2
		Exchangeable sodium percentage	%	30	1.4	2.5	4.4
		Nitrate	mg/kg	38	18	57.3	125

9 & 10/11/2020	3/5/2021	Nitrogen (total)	mg/kg	28	3843	6670	12000
		Organic Carbon	mg/kg	28	3900	6034	9550
		pH	pH	38	4.6	7.2	8.0
		Phosphorus (total)	mg/kg	38	1350	3830	8000
25 & 26 October 2021	24/05/2022	Cation Exchange Capacity	cmol(+)/kg soil	24	10	41.8	62
		Electrical Conductivity	dS/m	24	0.21	1.14	2.4
		Exchangeable sodium percentage	%	24	0.58	3.46	10
		Nitrate	mg/kg	24	6.8	61	290
		Nitrogen (total)	mg/kg	24	600	7350	15000
		Organic Carbon	mg/kg	24	5500	62437	110000
		pH	pH	24	6.9	7.6	8.4
		Phosphorus (total)	mg/kg	24	110	4187	13000
14 & 15/11/2022	10/01/2023	Cation Exchange Capacity	cmol(+)/kg soil	24	23	41.3	68
		Electrical Conductivity	dS/m	24	0.35	1.3	2.5
		Exchangeable sodium percentage	%	24	1.2	4.9	9.1
		Nitrate	mg/kg	24	6.7	34.1	120
		Nitrogen (total)	mg/kg	24	2300	6409.1	13000
		Organic Carbon	mg/kg	24	21000	73090.9	160000
		pH	pH	24	5.9	7.7	8.7
		Phosphorus (total)	mg/kg	24	590	4005	13000

Sample Date	Results Obtained	Pollutant	Units	No. of samples collected & analysed	Min Value	Mean Value	Max Value
23/08/2023	12/12/2023	Cation Exchange Capacity	cmol(+)/kg soil	31	28	45	70
		Electrical Conductivity	dS/m	45	0.57	1	2.5
		Exchangeable sodium percentage	%	31	4.2	8	16
		Nitrate	mg/kg	34	16	90	610
		Nitrogen (total)	mg/kg	22	2900	7677	15000
		Organic Carbon	mg/kg	22	26000	59269	97000
		pH	pH	45	6.6	8	8.3
		Phosphorus (total)	mg/kg	34	520	4828	18000
6/11/2024	28/05/2025	Cation Exchange Capacity	cmol(+)/kg soil	31	9.2	36	54
		Electrical Conductivity	dS/m	45	0.2	1	2.6
		Exchangeable sodium percentage	%	31	1.4	7	13
		Nitrate	mg/kg	34	2.4	47	110
		Nitrogen (total)	mg/kg	24	440	5693	10000
		Organic Carbon	mg/kg	24	4500	52521	93000
		pH	pH	45	6.6	8	8.7
		Phosphorus (total)	mg/kg	34	160	3895	10000
14/10/2025	7/05/2026	Cation Exchange Capacity	cmol(+)/kg soil	31	19	34	54
		Electrical Conductivity	dS/m	45	0.4	2	3.9
		Exchangeable sodium percentage	%	31	1.2	9	16
		Nitrate	mg/kg	34	2.5	39	150
		Nitrogen (total)	mg/kg	24	2000	6018	12000
		Organic Carbon	mg/kg	24	22000	79455	210000
		pH	pH	45	5.1	8	8.6
		Phosphorus (total)	mg/kg	34	530	4156	11000