

Soil Monitoring Data December 2019

Point 14

Published: 10 January 2020 Licensee: Cargill Newcastle EPL no.: 5810								
EPA Point ID	Date of Sampling	Date Results Received	Pollutant	Measurement Period & Monitoring Frequency Required by EPL	Units of Measure	December 2019		
						Min Value	Mean Value	Max Value
14 – Surface	03/12/2019	18/12/2019	pH	Yearly	pH	5.4	6.0	7.8
			Available Phosphorus (Bray)	Yearly	mg/kg	1.5	2.3	3.9
			Available Phosphorus (Colwell)	Yearly	mg/kg	40	64	109
			Chloride	Yearly	mg/kg	70	135	180
			Conductivity	Yearly	µS/cm	300	398	487
			Exchangeable Calcium	Yearly	meq/100g	3.5	4.2	4.7
			Exchangeable Magnesium	Yearly	meq/100g	0.8	0.3	1.1
			Exchangeable Potassium	Yearly	meq/100g	<0.1	0.2	0.4
			Exchangeable Sodium	Yearly	meq/100g	0.2	0.4	0.7
			Cation Exchange Capacity	Yearly	meq/100g	5.4	5.7	6.1
			Moisture Content	Yearly	%	9.2	11.2	14.8
14 – Sub-surface	03/12/2019	18/12/2019	pH	Yearly	pH	7.4	7.7	8.0
			Available Phosphorus (Bray)	Yearly	mg/kg	<1.0	1.1	2.5
			Available Phosphorus (Colwell)	Yearly	mg/kg	19	23	30
			Chloride	Yearly	mg/kg	20	50	70
			Conductivity	Yearly	µS/cm	166	226	278
			Exchangeable Calcium	Yearly	meq/100g	1.9	2.4	3.0
			Exchangeable Magnesium	Yearly	meq/100g	<0.2	<0.2	<0.2
			Exchangeable Potassium	Yearly	meq/100g	<0.2	<0.2	<0.2
			Exchangeable Sodium	Yearly	meq/100g	0.5	0	0.8
			Cation Exchange Capacity	Yearly	meq/100g	2.3	2.9	3.7
			Moisture Content	Yearly	%	3.5	5.9	9.2

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						Min Value	Mean Value	Max Value
15 – Surface	03/12/2019	18/12/2019	pH	Yearly	pH	7.6	7.8	8.2
			Available Phosphorus (Bray)	Yearly	mg/kg	<1.0	<1.0	<1.0
			Available Phosphorus (Colwell)	Yearly	mg/kg	11	21	38
			Chloride	Yearly	mg/kg	40	77	110
			Conductivity	Yearly	µS/cm	100	146	180
			Exchangeable Calcium	Yearly	meq/100g	3.5	6.0	7.3
			Exchangeable Magnesium	Yearly	meq/100g	0.5	1.0	1.4
			Exchangeable Potassium	Yearly	meq/100g	<0.2	0.2	0.4
			Exchangeable Sodium	Yearly	meq/100g	<0.2	0.3	0.5
			Cation Exchange Capacity	Yearly	meq/100g	4.2	7.6	9.7
			Moisture Content	Yearly	%	3.0	14.8	32.8
15 – Sub-surface	03/12/2019	18/12/2019	pH	Yearly	pH	8.1	8.4	8.6
			Available Phosphorus (Bray)*	Yearly	mg/kg	<1.0	<1.0	<1.0
			Available Phosphorus (Colwell)**	Yearly	mg/kg	<5	5	6
			Chloride	Yearly	mg/kg	20	23	30
			Conductivity	Yearly	µS/cm	86	97	116
			Exchangeable Calcium	Yearly	meq/100g	2.0	1.0	3.0
			Exchangeable Magnesium	Yearly	meq/100g	<0.2	<0.2	<0.2
			Exchangeable Potassium	Yearly	meq/100g	<0.2	<0.2	<0.2
			Exchangeable Sodium	Yearly	meq/100g	<0.2	<0.2	<0.2
			Cation Exchange Capacity	Yearly	meq/100g	3.2	1.0	3.2
			Moisture Content	Yearly	%	2.0	6.7	14.9

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						Min Value	Mean Value	Max Value
16 – Surface	03/12/2019	18/12/2019	pH	Yearly	pH	7.9	8.0	8.0
			Available Phosphorus (Bray)	Yearly	mg/kg	1.4	1.6	1.8
			Available Phosphorus (Colwell)	Yearly	mg/kg	23	38	47
			Chloride	Yearly	mg/kg	20	30	40
			Conductivity	Yearly	µS/cm	125	143	165
			Exchangeable Calcium	Yearly	meq/100g	3.6	4.3	4.7
			Exchangeable Magnesium	Yearly	meq/100g	<0.2	0.4	0.6
			Exchangeable Potassium	Yearly	meq/100g	0.3	0.3	0.3
			Exchangeable Sodium	Yearly	meq/100g	<0.2	0.2	0.3
			Cation Exchange Capacity	Yearly	meq/100g	4.0	5.2	5.8
			Moisture Content	Yearly	%	6.0	6.9	7.6
16 – Sub-surface	03/12/2019	18/12/2019	pH	Yearly	pH	8.4	8.5	8.6
			Available Phosphorus (Bray)*	Yearly	mg/kg	<1.0	0.7	1.2
			Available Phosphorus (Colwell)**	Yearly	mg/kg	9	14	21
			Chloride	Yearly	mg/kg	10	20	30
			Conductivity	Yearly	µS/cm	100	113	129
			Exchangeable Calcium	Yearly	meq/100g	2.4	5.1	9.4
			Exchangeable Magnesium	Yearly	meq/100g	<0.2	7.6	22.1
			Exchangeable Potassium	Yearly	meq/100g	<0.2	3.0	8.7
			Exchangeable Sodium	Yearly	meq/100g	<0.2	4.3	12.6
			Cation Exchange Capacity	Yearly	meq/100g	52.8	1.5	52.8
			Moisture Content	Yearly	%	3.6	4.6	6.4

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						Min Value	Mean Value	Max Value
17 – Surface	04/12/2019	18/12/2019	pH	Yearly	pH	5.5	6.8	7.8
			Available Phosphorus (Bray)	Yearly	mg/kg	1.6	5.5	8.5
			Available Phosphorus (Colwell)	Yearly	mg/kg	34	103	201
			Chloride	Yearly	mg/kg	220	365	820
			Conductivity	Yearly	µS/cm	308	454	853
			Exchangeable Calcium	Yearly	meq/100g	3	6.4	10.1
			Exchangeable Magnesium	Yearly	meq/100g	<0.2	0.8	1.3
			Exchangeable Potassium	Yearly	meq/100g	<0.2	0.2	0.2
			Exchangeable Sodium	Yearly	meq/100g	0.2	0.4	0.5
			Cation Exchange Capacity	Yearly	meq/100g	3.4	7.7	11.8
			Moisture Content	Yearly	%	14.3	22.9	33.6
17 – Sub-surface	04/12/2019	18/12/2019	pH	Yearly	pH	7.4	8.0	8.6
			Available Phosphorus (Bray)*	Yearly	mg/kg	1.4	4.0	8.4
			Available Phosphorus (Colwell)**	Yearly	mg/kg	20	53	103
			Chloride	Yearly	mg/kg	40	108	180
			Conductivity	Yearly	µS/cm	122	333	1000
			Exchangeable Calcium	Yearly	meq/100g	1.3	1.6	2.0
			Exchangeable Magnesium	Yearly	meq/100g	<0.2	<0.2	<0.2
			Exchangeable Potassium	Yearly	meq/100g	<0.2	<0.2	<0.2
			Exchangeable Sodium	Yearly	meq/100g	<0.2	0.3	0.4
			Cation Exchange Capacity	Yearly	meq/100g	1.3	1.9	2.4
			Moisture Content	Yearly	%	7.9	16.4	24.9