

Client: Andy Plantowner General Production Nursery
Sunset Hwy Broadacres Phone:

Sample: Number: Date:
Location:
Situation:
Feature:
Conditions:
Application

Summary

This water is around neutral pH with low salts and low hardness.

Dissolved organics as UVA is elevated but around average levels for unprotected surface waters. Fresh or reactive organic matter level is low.

Favourable factors are reactive organic matter, pH, oxidizing potential as ORP and carbon dioxide.

Unfavourable factors are elevated dissolved organics as UVA, turbidity and nitrate although none of these factors indicates anything above normal contamination for exposed surface waters.

Sodium and chloride levels are low and the sodium hazard for irrigation as SAR is low.

The water is likely to be significantly corrosive to concrete.

Physical:

Measurement	Result	Units	Method	Levels	Comments
EC	150.4	uS/cm			low salts as EC
Langelier Index	-1.8		Calculated		significant corrosion potential for concrete
ORP	296	mV	REDOX meter		oxidizing potential is within desirable range
pH	7.11		pH meter		around neutral pH
SAR	2.6		Calculated		no sodium hazard for soil if used for irrigation
Turbidity	14.3	FTU	Infra-red		slightly cloudy
UV transmission	63.8	%	UVT 254 nm		low UV transparency

Andy Plantowner

Sample Number:
Our Farm

Chemical:

Measurement	Result	Units	Method	Levels	Comments
Bicarbonate	41.5	mg/L	Acid titration		used to calculate Langelier Index
Calcium	5.5	mg/l	EGTA		
Chloride	22.8	mg/L	Argentometric	low	
CO2 (aqueous)**	5.3	ppm	Base titration		not elevated
DOC*	11.8	ppm	UVA 254 nm		elevated
Hardness total	30.8	ppm	EDTA		low hardness
Magnesium	4.1	mg/l	Calculated		calculated from calcium and total hardness
Organic C ***	0.23	ppm	Permanganate digestion		low reactive organic matter
Sodium	33.5	mg/l	Sodium electrode	low	

Nutrients:

Measurement	Result	Units	Method	Levels	Comments
Nitrate	4.63	mg/L	Cadmium reduction		slightly elevated
Phosphate	0.056	mg/L	Ascorbic acid reduction		at low end of problem range

Metals:

Biological:

To help with interpreting your water test report please refer to www.appslabs.com.au/What_do_your_water_test_results_mean.doc.

* DOC = Dissolved Organic Carbon. DOC is directly proportional to UVA 254 for most waters. Here it is estimated from UVA at 254 nm based on an approximate relationship derived from published data from a variety of waters.

** represents dissociated carbon dioxide / carbonic acid .

*** represents reactive organic matter using potassium permanganate digestion. 0.2 mg/L low, 0.4 mg/L moderate, 0.6 mg/L elevated, 1.0 mg/L C high.