Alpha Analytical Laboratories Inc.
e-mail: clientservices@alpha-labs.com

CHEMICAL EXAMINATION REPORT

Love's Point Ltd.
P.O. Box 1260
Lower Lake, CA 95457
Attn: Cliff Rediger

Report Date: 09/23/08 14:20
Project No: [none]
Project ID: Ag. Dev.

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
08I0408	09/10/2008 13:10	ZCLIRED	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Clear Lake 5182 Lake Rd., Lower Lake Ca 95457 (08I0408-0 Sample Type: Water						**Sampled: 09/10/08 09:00**		
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AI81222	09/12/08	09/17/08	1	**1.1 mg/l**	**0.050**	
Calcium	"	"	"	"	"	**28 "**	**1.0**	
Iron	"	"	"	"	"	**0.24 "**	**0.10**	
Magnesium	"	"	"	"	"	**20 "**	**1.0**	
Manganese	"	"	"	"	"	**0.023 "**	**0.020**	
Potassium	"	"	"	"	"	**2.3 "**	**1.0**	
Sodium	"	"	"	"	"	**13 "**	**1.0**	
Conventional Chemistry Parameters by APHA/EPA Methods								
Bicarbonate	SM2320B	AI81007	09/10/08	09/10/08	1	**180 mg/l**	**5.0**	
Carbonate	"	"	"	"	"	ND "	5.0	
Hardness, Total	SM2340B	AI81222	09/12/08	09/17/08	"	**151 "**	**5**	
pH	SM4500-H+ B	AI81007	09/10/08	09/10/08	"	**8.4 pH Units**	**1.0**	T-14
Specific Conductance (EC)	EPA 120.1	"	"	"	"	**310 umhos/cm**	**20**	
Total Dissolved Solids	Calculation	"	"	"	"	**160 mg/l**	**10**	
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	SAR	AI81222	09/12/08	09/23/08	1	**0.49 N/A**		
Anions by EPA Method 300.0								
Nitrate as NO3	EPA 300.0	AI81017	09/10/08	09/11/08	1	ND mg/l	1.0	
Chloride	"	"	"	"	"	**7.5 "**	**0.50**	
Sulfate as SO4	"	"	"	"	"	**6.9 "**	**0.50**	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

9/23/2008

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0810408	09/10/2008 13:10	ZCLIRED	

Notes and Definitions

T-14	Residual chlorine, dissolved oxygen, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time. Sample was received and analyzed outside of this "window."
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

WATER QUALITY - Guidelines for Irrigation

Interpretation is related to type of problem and its severity but modified by circumstances of soil, crop, and local experience.

TYPE OF PROBLEM	DEGREE OF PROBLEM		
	None	Increasing	Very Severe
Salinity[1]			
EC (mmhos/cm or dS/m)	less than 0.75	0.75 - 3.0	more than 3.0
TDS (mg/L)	less than 480	480 - 1920	more than 1920
Permeability			
Low EC (mmhos/cm or dS/m)	more than 0.5	0.5 - 0	----------
Low TDS (mg/L)	more than 320	320 - 0	----------
SAR[2]	less than 6.0	6.0 - 9.0	more than 9.0
CO3 + HCO3[3]	----------	----------	----------
Toxicity[4] of specific ions to sensitive crops			
Related to soil			
Sodium (evaluated by SAR)	SAR less than 3	3 - 9	more than 9
Chloride (mc/L)	less than 2	2 - 10	more than 10
(mg/L)	less than 70	70 - 345	more than 345
Boron (mg/L)	1.0	1.0 - 2.0	2.0 - 10.0
Related to foliar adsorption			
Sprinkler irrigated[5]			
Sodium (mc/L)	less than 3.0	more than 3.0	----------
(mg/L)	less than 70	70	----------
Chloride (mc/L)	less than 3.0	more than 3.0	----------
(mg/L)	less than 100	100	----------
Miscellaneous[6]			
NO3-N	less than 5	5 - 30	more than 30
HCO3 (mc/L)	less than 1.5	1.5 - 8.5	more than 8.5
(mg/L)	less than 40	40 - 520	more than 520
pH	normal range is 6.5 to 8.4		

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[1] Assumes water for crop plus needed water for leaching requirement will be applied. Crops vary in tolerance to salinity. Refer to crop tolerance tables.

[2] SAR means Sodium Adsorption Ratio. Calculated from SAR equals Na divided by the square root of ((HCO3 divided by Ca) + Mg divided by 2).
(Na equals sodium in mc/l; HCO3 - Bicarbonate; Ca - Calcium; Mg - magnesium). Permeability problems due to SAR are more likely to occur with swelling clay soils and with low salt water than with high salt water.

[3] High CO3+HCO3 can result in permeability problems due to precipitation of Ca as lime, which will reduce Ca and increase SAR. Where problems are suspected, evaluate by an adjusted SAR (SAR adj equals SAR (1 + (8.4-pHc)). Reference: J.D. Rhoades, 1972, Soil Sci, 113, p. 272-284.

[4] Most tree crops and woody ornamentals are sensitive to sodium and chloride. Most annual crops are not sensitive (Use salinity tolerance tables). For boron sensitivity, refer to boron tolerance tables.

[5] Occurrence and severity is directly related to low humidity - high evaporation climatic conditions.

[6] NO3-N is problem with certain crops, e.g. sugar beets, grapes; HCO3 can be problem in sprinkler irrigation due to white carbonate deposit on fruit or leaves.