## IRRIGATION WATER QUALITY REPORT



Imperial Analytics
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Arcata, CA 95521
707-630-4173
Monday - Friday 9 a.m. -5 p.m.
lab@imperialanalytics

| Analysis Type | Result | Optimal Range |
| :---: | :---: | :---: |
| pH | 8.1 | $6.5-8.5$ |
| Electrical Conductivity ${ }^{*} E C(\mathrm{dS} / \mathrm{m})$ | 0.34 | $\mathrm{~N} / \mathrm{A}$ |


| Macronutrients |  |  |
| :---: | :---: | :---: |
| Analyte Type in ppm | Result | Optimal Range <br> $(\mathrm{ppm})$ |
| Calcium (Ca) | 23.0 | $\mathrm{~N} / \mathrm{A}$ |
| Magnesium (Mg) | 2.3 | $\mathrm{~N} / \mathrm{A}$ |
| Potassium (K) | ND | $\mathrm{N} / \mathrm{A}$ |
| Sodium (Na) | 7.8 | $\mathrm{~N} / \mathrm{A}$ |
| Nitrate $\left(\mathrm{NO}_{3}{ }^{-}-\mathrm{N}\right)$ | ND | 10 |
| Phosphate $\left(\mathrm{PO}_{4}{ }^{3-}-\mathrm{P}\right)$ | 0.6 | 5 |


| Micronutrients |  |  |
| :---: | :---: | :---: |
| Analyte Type in ppm | Result | Optimal Range <br> $(\mathrm{ppm})$ |
| Zinc (Zn) | ND | 5 |
| Manganese (Mn) | ND | 0.05 |
| Copper (Cu) | ND | 1.3 |
| Iron (Fe) | ND | 0.3 |
| Boron (B) | 0.2 | N/A |
| Chloride (Cl) | 18 | $<250$ |


| Calculated Water Hardess |  |  |
| :---: | :---: | :---: |
| Analysis Type | Result* | Optimal Ratio |
| Hardness | 67 |  |


| Customer Contact: |  |
| :--- | :--- |
| Name: Jane Doe |  |
| Phone: $707-630-4173$ |  |
| Email: lab@imperialanalytics.com |  |
| Date Received: 01/18/2019 |  |
| Report date: $01 / 22 / 2019$ |  |
| Report Approved by: $\quad$ ZM | QC Approved by: |


| Sample Info: |
| :--- |
| Received by: IA |
| Sample Name: Water |
| Lab ID: 100 W w4 |

## Interpretations \& Recommendations:

For further details and recommendations about your report give us a call to discuss consultation and fertility management options. You can also check out our website at www.imperialanalytics.com for more information, helpful hints and disclaimers.

$$
\text { Total Hardness ppm = } 67 \text { ppm }
$$

## MODERATELY HARD

The bulk of this number is from dissolved calcium ( 23 ppm ), which is common in spring and well water. Calcium carbonate is extremely soluble and dissolves readily into water.

ND - No Detection - This means there was not a detected amount of this substance in your water sample.

Drinking water thresholds for pH , chloride, nitrate and phosphate adapted from EPA's national primary and secondary drinking water regulations.
*Water Hardness Scale (Adapted from federal water quality standards):

- Soft: Below 0-60 ppm
- Moderately Hard: 61-120 ppm
- Hard: 121-180 ppm
- Very Hard: > 180 ppm

