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SePRO Lab

Water Diagnostics for Lakes & Ponds



SeSCRIPT Analysis Report: Clementia

Company: Solitude Lake Management

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Project Name: Rancho Murietia

Surface Area: 88 acres

Average depth: 20 feet

Date Algae Sample Received: 7/30/2025

SeSCRIPT Analysis Performed: Algae ID

eCOC: 18594

Algae ID Results

Clementia

| Identification | Classification | Description | Density/Biomass (cells/mL) |
|------------------------|------------------------------|--|----------------------------|
| Sur | | | ★★ |
| <i>Microcystis</i> sp. | Cyanophyta- Blue-green algae | Colonial, scum-former, planktonic, potential toxin and taste/odor producer | 27,600 |

Other algae observed at densities less than 40 cells/mL: *Dolichospermum* (Cyanophyta); *Trachelomonas* (Euglenophyta); *Staurastrum* (Streptophyta)

| SeScript Alert Index | Threat Level | Cyanobacteria Levels (cells/mL) |
|----------------------|--------------|----------------------------------|
| ★ | Low | Less than 20,000 |
| ★★ | Moderate | 20,000 to 100,000 |
| ★★★ | High | More than 100,000 |
| ★★★★ | Extreme | More than 100,000 with scum/mats |

Algae ID Results

Clementia

| Identification | Classification | Description | Density/Biomass (cells/mL) |
|--------------------------|------------------------------|---|----------------------------|
| Bot | | | ★★★ |
| <i>Merismopedia</i> sp. | Cyanophyta- Blue-green algae | Colonial, planktonic, potential toxin producer | 79,900 |
| <i>Planktothrix</i> sp. | Cyanophyta- Blue-green algae | Filamentous, planktonic/periphytic, potential toxin and taste/odor producer | 38,100 |
| <i>Trachelomonas</i> sp. | Euglenophyta- Euglenoids | Single-celled, flagellated, planktonic | 590 |

Other algae observed at densities less than 40 cells/mL: *Cymbella* (Bacillariophyta); *Pediastrum* (Chlorophyta); *Euglena*, *Phacus* (Euglenophyta)

Much particulate matter observed

| Identification | Classification | Description | Density/Biomass (cells/mL) |
|------------------------|------------------------------|--|----------------------------|
| Ramp | | | ★★ |
| <i>Microcystis</i> sp. | Cyanophyta- Blue-green algae | Colonial, scum-former, planktonic, potential toxin and taste/odor producer | 22,100 |

Other algae observed at densities less than 40 cells/mL: *Rhopalodia* (Cyanophyta); *Aphanizomenon*, *Dolichospermum* (Cyanophyta); *Staurastrum* (Streptophyta)

Algae ID Pictures

Clementia

