Suppression of colonies of *Reticulitermes spp.* using the Sentricon® termite colony elimination system: A case study in Chatsworth, CA

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1. University of California, Berkeley, CA
2. Dow AgroSciences, Indianapolis, IN
3. Pacific Southwest Research Station-Forest Service, Albany, CA
• Residential condominiums
  - Incorporated Feb 1969

• Ten Construction phases
  • 1969-1979

• 90 acre property

• 140 structures
  - 132 residential
  - 739 units
  - over 2600 people

• 1.5 million sq. ft. under roof

• 11.3 miles of perimeter linear feet
• Commercial installation

• **Sentricon™** in-ground (few above ground)

• **Installation October-December 2001**
  - 134 structures
  - 7327 initially installed stations

• **Prolinx™** database maintained
  - Dolphin scanner

• **Switch to ESP™ in September 2002**
Data Collection and Management

- One technician responsible for site inspections
- Stations baited with active ingredient once termites observed
- Monthly service tickets and Prolinx™ summaries
- Manage data as GIS project
WITHIN ONE YEAR OF INSTALL

Total no. buildings w/stations  134

Total no. buildings with active termites in stations  130 (95%)
WITHIN ONE YEAR OF INSTALL

Total no. stations installed  7327

Total no. auxillaries installed  418
WITHIN ONE YEAR OF INSTALL

Total no. stations with termites present/baited
878 (12%)

Mean/median days to station first active
153/105 days
WITHIN ONE YEAR OF INSTALL

No. “Successfully Baited” 727 (83%)

No. Multiple Baitings (re-hits) 120 (14%)

No. of Abandonments 53 (6%)

Mean/Median Days to Elimination 127/102 days
Building Hit Progression at the RockPointe Condominium Complex

Months following completion of install

Percent of buildings hit

% Of buildings hit/month
Cumulative % of buildings hit
RockPointe-New Active Stations/Month

Month/Year

# of Active Stations

Jan-02  Feb-02  Mar-02  Apr-02  May-02  Jun-02  Jul-02  Aug-02  Sep-02  Oct-02  Nov-02  Dec-02  Jan-03  Feb-03  Mar-03  Apr-03  May-03  Jun-03  Jul-03  Aug-03  Sep-03  Oct-03  Nov-03  Dec-03  Jan-04  Feb-04  Mar-04  Apr-04  May-04  Jun-04  Jul-04  Aug-04

5  81  56  59  100  76  44  9  21  43  47  48  16  9  3  8  5  4  4  1  2  4  5  2  1  3
Figure 1. Site overview following completion of install in December 2001
RockPointe Condominium Complex
Chatsworth, CA

Figure 3. Location of Buildings hit in January 2002
Figure 3. Location of Buildings hit in January 2002

RockPointe Condominium Complex
Chatsworth, CA

- Bldg. not recorded in database
- New hit
- Prior hit

North
Figure 4. Location of Buildings hit in February 2002
Figure 5. Location of Buildings hit in March 2002
Figure 6. Location of Buildings hit in April 2002
Figure 7. Location of Buildings hit in May 2002

RockPointe Condominium Complex
Chatsworth, CA

- Orange: Bldg. not recorded in database
- Yellow: New hit
- Blue: Prior hit
Figure 8. Location of Buildings hit in June 2002
RockPointe Condominium Complex
Chatsworth, CA

Figure 9. Location of Buildings hit in July 2002

- Orange: Bldg. not recorded in database
- Yellow: New hit
- Blue: Prior hit

North
RockPointe Condominium Complex
Chatsworth, CA

- **Bldg. not recorded in database**
- **New hit**
- **Prior hit**

Figure 10. Location of Buildings hit in October 2002
RockPointe Condominium Complex
Chatsworth, CA

Figure 11. Location of Buildings hit in April 2003
Figure 12. Location of Buildings hit in August 2003
Auxillaries

- As of May 2004
  - 888 Primary Stations active for a 12% rate
  - 54 of 423 auxiliary stations active for a 13% rate
Homeowner Termite Complaints

- **Before Baiting**
  - Average of 15-20 complaints per month

- **Post Baiting**
  - Complaints mid 2003 only 5-7 calls per month
  - Current calls average less than 1 per month
  - Alate flights are down considerably to date
Thank you

- Questions can be directed to
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