



1589 No. Main Street
Orange, CA 92867
Tel: (888) 502-5197 ~ Fax: (888) 502-5198

January 16, 2017

Mr. Samuel Unger
Executive Officer
State Regional Water Quality Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Subject: Nursery Growers Association
Los Angeles County Irrigated Lands Group
Conditional Waiver for Irrigated Lands
**ANNUAL MONITORING REPORT-YEAR ONE UNDER ORDER
R4-2016-0143 (THROUGH OCTOBER 15, 2016)**

Dear Mr. Unger:

Pacific Ridgeline prepared this *Annual Monitoring Report* on behalf of Nursery Growers Association, Los Angeles County Irrigated Lands Group (LAILG). Monitoring and reporting was conducted in accordance with the Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands (CWIL; Order # R4-2016-0143) under the Quality Assurance Project Plan and Monitoring and Reporting Plan submitted by LAILG for the previous CWIL.

One sampling event was conducted during the final wet season of the previous CWIL and two sampling events were conducted during first dry season under the current CWIL (sampling through October 15, 2016). A total of two samples were collected at the five sites visited during the wet season sampling events. No samples were collected during the dry season.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Respectfully submitted,

Los Angeles Irrigated Lands Group

John Schoustra
NGA Board Member



**ANNUAL MONITORING REPORT-
YEAR ONE UNDER ORDER # R4-2016-0143
(THROUGH OCTOBER 15, 2016)**

**NURSERY GROWERS ASSOCIATION
LOS ANGELES COUNTY
IRRIGATED LANDS GROUP**

January 16, 2017



TABLE OF CONTENTS

| | |
|--|-----------|
| 1.0 INTRODUCTION | 1 |
| 2.0 BACKGROUND | 3 |
| 3.0 CURRENT EVENTS..... | 5 |
| 4.0 SAMPLING EVENTS..... | 9 |
| 5.0 WATER QUALITY BENCHMARKS..... | 11 |
| 6.0 INDIVIDUAL SAMPLING SITE RESULTS..... | 17 |
| 6.1 SAMPLING SITES | 17 |
| 6.2 VISITED REVOLVING SAMPLING SITES..... | 63 |
| 7.0 SUMMARY OF SAMPLING SITE RESULTS..... | 69 |
| 7.1 WATER QUALITY BENCHMARK EXCEEDANCES | 69 |
| 7.2 QUALITY ASSURANCE AND QUALITY CONTROL..... | 74 |
| 8.0 DISCUSSION / CONCLUSION..... | 75 |

TABLE OF CONTENTS, CONTINUED

TABLES:

| | |
|----------|--|
| Table 1 | Sampling Schedule |
| Table 2 | Fixed and Rotating Sampling Locations |
| Table 3 | Interim Sampling Locations |
| Table 4 | Sampling Timeline |
| Table 5 | List of Constituents for Testing |
| Table 6 | Water Quality Benchmarks, General Chemistry |
| Table 7 | Water Quality Benchmarks, Pesticides, CWIL |
| Table 8 | Additional Water Quality Benchmarks, Pesticides, California Toxic Rule |
| Table 9 | Water Quality Benchmarks, Pesticides, Aquatic Life Benchmarks |
| Table 10 | Water Quality Benchmarks, Field Monitoring and Toxicity |
| Table 11 | Summary of Samples Collected, NGA #19 |
| Table 12 | Summary of Samples Collected, NGA #124 |
| Table 13 | Summary of Samples Collected, NGA #178 |
| Table 14 | Summary of Samples Collected, NGA #184 |
| Table 15 | Summary of Samples Collected, NGA #109/110 |
| Table 16 | Summary of Samples Collected, NGA #150 |
| Table 17 | Summary of Samples Collected, NGA #189 |
| Table 18 | Summary of Samples Collected, NGA #31 |
| Table 19 | Summary of Samples Collected, NGA #64 |
| Table 20 | Summary of Samples Collected, NGA #168 |
| Table 21 | Summary of Samples Collected, NGA #4 |
| Table 22 | Summary of Samples Collected, NGA #53 |
| Table 23 | Summary of Samples Collected, NGA #176 |
| Table 24 | Summary of Samples Collected, NGA #210 |
| Table 25 | Summary of Samples Collected, NGA #188 |
| Table 26 | Summary of Water Quality Exceedances, General Chemistry |
| Table 27 | Summary of Water Quality Exceedances, Pesticides |

TABLE OF CONTENTS, CONTINUED

FIGURES:

| | |
|------------|---|
| Figure 1 | Los Angeles Regional Watershed |
| Figure 1.1 | Santa Monica Bay WMA |
| Figure 1.2 | Santa Clara River Watershed |
| Figure 1.3 | Los Angeles River Watershed |
| Figure 1.4 | Dominguez Channel LA/Long Beach Harbors WMA |
| Figure 1.5 | San Gabriel Watershed |
| Figure 2 | Aerial Photograph of NGA #19 |
| Figure 3 | Aerial Photograph of NGA #124 |
| Figure 4 | Aerial Photograph of NGA #178 |
| Figure 5 | Aerial Photograph of NGA #184 |
| Figure 6 | Aerial Photograph of NGA #11 |
| Figure 7 | Aerial Photograph of NGA #109/110 |
| Figure 8 | Aerial Photograph of NGA #150 |
| Figure 9 | Aerial Photograph of NGA #189 |
| Figure 10 | Aerial Photograph of NGA #31 |
| Figure 11 | Aerial Photograph of NGA #64 |
| Figure 12 | Aerial Photograph of NGA #81 |
| Figure 13 | Aerial Photograph of NGA #168 |
| Figure 14 | Aerial Photograph of NGA #4 |
| Figure 15 | Aerial Photograph of NGA #53 |
| Figure 16 | Aerial Photograph of NGA #176 |
| Figure 17 | Aerial Photograph of NGA #210 |
| Figure 18 | Aerial Photograph of NGA #158 |
| Figure 19 | Aerial Photograph of NGA #202 |
| Figure 20 | Aerial Photograph of NGA #212 |

APPENDICES:

| | |
|------------|--|
| Appendix A | Updated List of LAILG, as of March 2016 |
| Appendix B | Current and Historic Sampling Results |
| Appendix C | Laboratory Analytical Results and Chain of Custody |

ACRONYMS

| | |
|---------|--|
| ABC | Aquatic Bioassay and Consulting Laboratories |
| ALB | Aquatic Life Benchmark |
| AMR | Annual Monitoring Report |
| BMP | Best Management Practice |
| COC | Chain of Custody |
| CWIL | Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands |
| EPA | United States Environmental Protection Agency |
| GPS | Global Positioning System |
| LAILG | Los Angeles Irrigated Lands Group |
| LARWQCB | Los Angeles Regional Water Quality Control Board |
| MDL | Method Detection Limit |
| MRP | Monitoring and Reporting Plan |
| NGA | Nursery Growers Association |
| OC | Organochlorinated Pesticides |
| OP | Organophosphate Pesticides |
| PacRL | Pacific Ridgeline |
| PP | Pyrethroid Pesticides |
| QA | Quality Assurance |
| QAPP | Quality Assurance Project Plan |
| RPD | Relative Percent Difference |
| TDS | Total Dissolved Solids |
| TIE | Toxicity Identification Evaluation |
| TUc | Toxicity concentration in toxicity units |
| WMA | Watershed Management Area |
| WQBs | Water Quality Benchmarks |
| WQMP | Water Quality Management Plan |

**ANNUAL MONITORING REPORT-YEAR FOUR UNDER
ORDER # R4-2016-0143 (THROUGH OCTOBER 15, 2016)**

**NURSERY GROWERS ASSOCIATION
LOS ANGELES COUNTY IRRIGATED LANDS GROUP**

1.0 INTRODUCTION

The NGA is a non-profit association chartered in the late 1950s. The purpose of NGA is to foster and encourage the growth and development of quality stock and to promote all matters that pertain to the best interests of the wholesale nursery growers. NGA developed the LAILG for compliance with the CWIL, Order #R4-2010-0186. PacRL was contracted by NGA to manage the technical aspect of the LAILG.

The LAILG has members within the Dominguez Channel LA/Long Beach Harbors WMA, the Los Angeles River Watershed, the San Gabriel River Watershed, the Santa Monica Bay WMA, and the eastern portion of the Santa Clara River Watershed. All five Watersheds and WMAs have impacted waterbodies that appear on the Federal 303(d) list, and listed contaminants include constituents that could be related to agricultural uses.

The LARWQCB is a State of California Agency that regulates water quality within the coastal watershed of Ventura and Los Angeles Counties under the authorities of the Federal Clean Water Act and State Porter Cologne Water Quality Control Act. The area under the jurisdiction of the LARWQCB is known as the Los Angeles Region.

Water quality impacts associated with agriculture can be primarily traced to discharges resulting from irrigation or stormwater. These discharges typically contain pollutants that have been imported or introduced into the irrigation or stormwater; in addition, irrigation practices can mobilize and or concentrate some pollutants. In order to mitigate these potentially polluted discharges from impacting the beneficial uses of water bodies within the Los Angeles Region, the LARWQCB adopted a CWIL (Order No. R4-2005-0080) on November 3, 2005, as mandated by state law and policy. AMRs submitted by the LAILG during the original CWIL term reported runoff water quality that exceeded established water quality benchmarks.

On October 7, 2010, the LARWQCB adopted a second CWIL for the Los Angeles Region (Order No. R4-2010-0186). This CWIL was extended for an additional year under Order R4-2015-0202. Order R4-2016-0134, adopted on May 19, 2016, slightly revised the program and extended water quality monitoring throughout the Los Angeles Region. Exceedances are to be dealt with by implementing a WQMP that establishes procedures to reduce or eliminate pollutant loading into receiving waters. The goal of this program is to protect and improve water quality, and to attain water quality objectives in the receiving water bodies.

The objective of this AMR is to evaluate compliance with water quality benchmarks established by the various CWILs throughout the life of the program, and to report findings to the LARWQCB as specified in the MRP. This AMR describes the monitoring efforts and results that have been undertaken by the NGA for compliance with the CWIL through October 15, 2016, along with presenting historical data collected throughout the life of the program.

Implementation and results from the WQMP will be presented in a standalone WQMP update report, and are not included in this document.

2.0 BACKGROUND AND SAMPLING METHODOLOGY

As of December 2016, the LAILG is comprised of 271 sites and an estimated 1,853 irrigated acres. A complete list of current group members in good standing with the LAILG is included in Appendix A.

Until additional information is gathered from the group in order to apply the most recent WQMP, LAILG has been operating under the MRP developed for the previous CWIL. As outlined in the last MRP, dated April 7, 2011, the LAILG collects water quality data at 20 sampling sites throughout each year. All enrolled growers are segregated into four distinct sampling regions (Group 1 - Group 4) based on their geographic location. The majority of the sampling sites were continued from the last CWIL period and the sampling region boundaries were established to ensure that each group contained 4 of the 16 established fixed sampling sites and approximately the same number of total enrolled growers. Refer to Appendix A for all LAILG enrolled growers and sampling regions. An updated map of enrolled members is currently being prepared, and will be submitted to the LARWQCB upon completion.

A rotating sampling schedule was implemented for the 16 fixed sampling sites; 4 sites are sampled during each distinct sampling event. The sampling groups are cycled throughout the year, ensuring that each fixed sample site is visited at least once per year (Table 1). The approved sampling schedule ensures each sampling group collects a sample during each possible event (first or second, wet and dry) throughout the previous CWIL period.

Table 1 - Sampling Schedule, CWIL R4-2010-0186

Table 1 Sampling Schedule

| YEAR | DRY SEASON MAY 15-OCTOBER 14 | | WET SEASON OCTOBER 15-MAY 14 | |
|--|---------------------------------|----------|---------------------------------|----------|
| | EVENT #1 | EVENT #2 | EVENT #1 | EVENT #2 |
| 1 (MAY 15, 2011- MAY 14, 2012) | GROUP 1 | GROUP 2 | GROUP 3 | GROUP 4 |
| 2 (MAY 15, 2012- MAY 14, 2013) | GROUP 2 | GROUP 3 | GROUP 4 | GROUP 1 |
| 3 (MAY 15, 2013- MAY 14, 2014) | GROUP 3 | GROUP 4 | GROUP 1 | GROUP 2 |
| 4 (MAY 15, 2014- MAY 14, 2015) | GROUP 4 | GROUP 1 | GROUP 2 | GROUP 3 |
| 5 (MAY 15, 2016- OCTOBER 15, 2016) | GROUP 1 | GROUP 2 | GROUP 3 | GROUP 4 |

A single revolving sampling site was added to the four fixed sampling sites for each sampling event. Five sites were chosen for each sampling group region to serve as potential revolving sampling sites. Revolving sampling sites have been chosen using the criteria listed above. Fixed and revolving sampling sites are presented on Table 2 in Section 3.

For each sampling event, the revolving sampling site is selected from the list of potential revolving sampling sites for each sampling group region. The revolving site sampled is selected from the sampling group region scheduled for a particular sampling event.

If an exceedance is detected in a revolving sampling site, that site was re-visited and re-sampled when the particular sampling group region is scheduled for the following years sampling event. If no exceedance is detected, or samples are not collected, a new revolving site is selected for the following years sampling event.

In the interim of CWIL Order R4-2016-0143, sampling was conducted as outlined in Section 3.0 for the dry and wet season. Dry season sampling has already occurred, and is included in this report.

3.0 CURRENT EVENTS

An updated WQMP was submitted to the LARWQCB on August 21, 2015. LAILG will continue to operate under the existing WQMP until enough data is collected to update to a new MRP and WQMP as required by the new CWIL. LAILG will also be operating under the existing MRP until a new MRP is developed, which is pending collection of data from growers and is anticipated to be in the second quarter of 2017.

Since the previous AMR, a number of fixed and rotating sites have also been lost, but were not replaced in anticipation of preparing a new MRP under the new CWIL. The updated site list with redacted sampling locations is presented on Table 2. Appendix A presents the most recent list of enrolled members, and Figures 1 through 1.5 presents the most recent maps of members enrolled in the program.

For the interim period under Order R4-2016-0143 and until a new MRP is developed, LAILG will be sampling the sites presented on Table 3 during the wet season of 2016-2017. The sites presented on Table 3 for the dry season have been visited and are presented in this report. These sites were chosen in the interim due to ease of access, the need for additional and/or new data, and/or a high likelihood of being able to collect stormwater samples.

Table 2 - Fixed Sampling Locations, Historical

| NAME | SITE # | APPROXIMATE GPS LOCATION | ADDRESS | ACRES IRRIGATED | CROP TYPE |
|-----------------------------------|--------|-------------------------------------|---|-----------------|---------------------|
| GROUP 1 | | | | | |
| Boething Treeland Farms, Inc. | 19 | N 34° 09' 51.1" W 118° 38' 20.7" | 23475 Long Valley Road Woodsland Hills, CA | 14.68 | General Ornamentals |
| Norman's Nursery | 125 | N 34° 05' 42.3" W 118° 04' 53.5" | 8550 E Broadway San Gabriel, CA | 7.00 | General Ornamentals |
| Ultra Greens Nursery | 178 | N 34° 17' 57.4" W 118° 25' 06.5" | 13102 Maclay Street Sylmar, CA | 8.50 | General Ornamentals |
| Valley Sod Farms, Inc. | 184 | N 34° 13' 23.1" W 118° 29' 34.5" | 16405 Chase Street North Hills, CA | 36.00 | Sod Farms |
| GROUP 2 | | | | | |
| Acosta Growers, Inc. | 11 | N 34° 06' 38.0" W 117° 54' 19.9" | 669 S. Azusa Ave Azusa, CA | 7.50 | General Ornamentals |
| Glendora Gardens | 110 | N 34° 07' 05.5" W 117° 52' 19.8" | 1132 S Grand Avenue Glendora, CA | 3.75 | Retail / Multiple |
| Colorama Wholesale Nursery | 150 | N 34° 08' 27.5" W 117° 55' 35.9" | 1025 N. Todd Ave. Asuza, CA | 15.30 | Color Plants |
| West Covina Wholesale | 189 | N 34° 06' 58.1" W 117° 47' 05.1" | 3425 Damien Ave La Verne, CA | 1.25 | General Ornamentals |
| GROUP 3 | | | | | |
| Coimer Nursery | 31 | N 34° 02' 19.1" W 118° 01' 28.4" | 285 San Fidel La Puente, CA | 48.00 | General Ornamentals |
| H&H Nursery | 64 | N 33° 52' 07.1" W 118° 08' 32.4" | 6220 Lakewood Boulevard Lakewood, CA | 2.50 | Retail / Multiple |
| Centeno's Nursery and Landscaping | 81 | N 33° 52' 46.9" W 118° 09' 20.7" | 6850 Paramount Blvd Long Beach, CA | 3.00 | General Ornamentals |
| SY Nursery Inc. | 168 | N 33° 50' 59.2" W 118° 04' 36.0" | 19900 S Pioneer Blvd Cerritos, CA | 4.75 | General Ornamentals |
| GROUP 4 | | | | | |
| ABC Nursery, Inc. | 4 | N 33° 52' 55.7" W 118° 16' 06.0" | 424 E. Gardena Boulevard Gardina, CA | 11.51 | General Ornamentals |
| New West Growers | 53 | N 33° 52' 51.1" W 118° 12' 56.3" | 1601 S. Santa Fe Ave Compton, CA | 1.70 | General Ornamentals |
| T-Y Nursery | 176 | N 33° 51' 18.7" W 118° 23' 10.9" | Between Flagler/Paulina Redondo Beach, CA | 7.50 | General Ornamentals |
| Hevadu | 210 | N 34° 01' 10.0" W 118° 49' 05.6" | 6415 Busch Drive Malibu, CA | 2.75 | Vineyard |

Table 2 - Rotating Sampling Locations, Historical

| NAME | SITE # | APPROXIMATE GPS LOCATION | ADDRESS | ACRES IRRIGATED | CROP TYPE |
|-----------------------------------|--------|-------------------------------------|--|-----------------|---------------------|
| GROUP 1 | | | | | |
| Canyon Way Nursery | 26 | N 34° 12' 04.9" W 118° 13' 22.3" | 11745 Sherman Way Studio City, CA | 4.25 | General Ornamentals |
| Live Art Plantscapes, Inc. | 105 | N 34° 14' 34.3" W 118° 32' 36.1" | 18809 Plummer St Northridge, CA | 1.80 | Greenhouse |
| Green Landscape Nursery | 143 | N 34° 23' 01.2" W 118° 31' 34.1" | 22216 1/2 Placerita Canyon Rd Newhall, CA | 4.00 | General Ornamentals |
| Sakaida Nursery, Inc. | 158 | N 34° 06' 49.0" W 118° 04' 54.8" | 8538-8601 Longden Ave San Gabriel, CA | 6.89 | General Ornamentals |
| Worldwide Exotics Inc. | 204 | N 34° 16' 23.8" W 118° 22' 06.1" | 11157 Orcas Avenue Lake Terrace, CA | 2.00 | General Ornamentals |
| GROUP 2 | | | | | |
| Coiner Nursery | 32 | N 34° 6' 25.9" W 117° 46' 19.7" | 3000 B Street La Verne, CA | 15.00 | General Ornamentals |
| West Covina Wholesale | 188 | N 34° 05' 38.0" W 117° 47' 31.3" | West end of Puddingstone La Verne, CA | 15.25 | General Ornamentals |
| El Nativo Growers, Inc. | 202 | N 34° 06' 34.8" W 117° 56' 29.8" | 200 S. Peckham Azusa, CA | 7.00 | General Ornamentals |
| Choji Matsushita | 226 | N 34° 06' 52.9" W 117° 48' 41.1" | 724 N. Cataract Avenue San Dimas, CA | 1.70 | Cutflower |
| Organicado | 255 | N 34° 08' 55.0" W 117° 58' 24.4" | 460 Old ranch Road Bradbury, CA | 4.00 | Orchard |
| GROUP 3 | | | | | |
| Carreon Nursery | 50 | N 34° 03' 10.6" W 118° 05' 48.5" | 7900 La Merced Road Rosemead, CA | 6.00 | General Ornamentals |
| Humedo Nursery | 70 | N 33° 55' 00.5" W 118° 06' 44.3" | 10040 Imperial Highway Downey, CA | 2.20 | General Ornamentals |
| San Gabriel Nursery & Florist | 162 | N 34° 02' 27.4" W 118° 06' 20.5" | 2015 Potrero Grande Monterey Park, CA | 6.00 | General Ornamentals |
| Lam Farms | 212 | N 33° 53' 34.5" W 118° 08' 49.9" | 8600 Jefferson Street Paramount, CA | 1.00 | Row Crop |
| ABC Rhubarb Farms | 261 | N 33° 57' 44.0" W 118° 09' 19.3" | 6208 Clara Street Bell Gardens, CA | 5.00 | Row Crop |
| GROUP 4 | | | | | |
| Color Spot Nurseries, Inc. | 33 | N 33° 48' 28.6" W 118° 16' 59.9" | 321 W. Sepulveda Blvd Carson, CA | 18.50 | Color Plants |
| International Plant Growers, Inc. | 73 | N 33° 47' 55.4" W 118° 17' 26.0" | 24500 Vermont Ave Harbor City, CA | 5.00 | Color Plants |
| Foro Nursery Inc. | 170 | N 33° 52' 15.3" W 118° 19' 35.9" | 17585 Crenshaw Blvd Torrance, CA | 15.78 | Color Plants |
| The Malibu Vineyard | 221 | N 34° 02' 36.5" W 118° 38' 47.5" | 3222 Rambla Pacifico Malibu, CA | 2.00 | Vineyards |
| Schoelkopf Vineyard | 224 | N 34° 02' 19.6" W 118° 51' 36.9" | 31499 Pacific Coast Hwy Malibu, CA | 0.80 | Vineyards |

Table 3 – Interim Sampling Locations

| NAME | SITE # | APPROXIMATE GPS LOCATION | ADDRESS | SAMPLE SEASON | ACRES IRRIGATED | CROP TYPE |
|-------------------------------|--------|-------------------------------------|--|---------------|-----------------|---------------------|
| ABC Nursery, Inc. | 4 | N 33° 52' 55.7" W 118° 16' 06.0" | 424 E. Gardena Boulevard Gardina, CA | DRY / WET | 11.51 | General Ornamentals |
| Boething Treeland Farms, Inc. | 19 | N 34° 09' 51.1" W 118° 38' 20.7" | 23475 Long Valley Road Woodland Hills, CA | DRY / WET | 14.68 | General Ornamentals |
| Canyon Way Nursery | 26 | N 34° 12' 04.9" W 118° 13' 22.3" | 11745 Sherman Way Studio City, CA | WET | 4.25 | General Ornamentals |
| Norman's Nursery | 125 | N 34° 05' 42.3" W 118° 04' 53.5" | 8550 E Broadway San Gabriel, CA | DRY / WET | 7.00 | General Ornamentals |
| Colorama Wholesale Nursery | 150 | N 34° 08' 27.5" W 117° 55' 35.9" | 1025 N. Todd Ave. Asuza, CA | DRY / WET | 15.30 | Color Plants |
| Sakaïda Nursery, Inc. | 158 | N 34° 06' 49.0" W 118° 04' 54.8" | 8538-8601 Longden Ave San Gabriel, CA | DRY / WET | 6.89 | General Ornamentals |
| SY Nursery Inc. | 168 | N 33° 50' 59.2" W 118° 04' 36.0" | 19900 S Pioneer Blvd Cerritos, CA | DRY / WET | 4.75 | General Ornamentals |
| T-Y Nursery | 176 | N 33° 51' 18.7" W 118° 23' 10.9" | Between Flagler/Paulina Redondo Beach, CA | DRY / WET | 7.50 | General Ornamentals |
| Ultra Greens Nursery | 178 | N 34° 17' 57.4" W 118° 25' 06.5" | 13102 Maclay Street Sylmar, CA | DRY / WET | 8.50 | General Ornamentals |
| Valley Sod Farms, Inc. | 184 | N 34° 13' 23.1" W 118° 29' 34.5" | 16405 Chase Street North Hills, CA | DRY | 36.00 | Sod |
| West Covina Wholesale | 188 | N 34° 05' 38.0" W 117° 47' 31.3" | West end of Puddingstone La Verne, CA | WET | 15.25 | General Ornamentals |
| El Nativo Growers | 202 | N 34° 06' 38.2" W 117° 56' 26.4" | 200 S. Peckham Azusa, CA | DRY | 7.00 | General Ornamentals |

4.0 SAMPLING EVENTS

During the wet season of this reporting period, which lasted from October 15, 2015 through May 14, 2016, fixed and rotating sampling sites from Group #3 (Table 2) were visited on January 15, 2016. There was insufficient precipitation to initiate a second sampling event. During the sampling event for Group #3 a total of two of the five sites had sufficient runoff to conduct sampling.

During the dry season of this reporting period, which lasted from May 15, 2016 through October 14, 2016, the interim sites listed in Table 3 were visited on September 9 and September 20, 2016. All sampling sites were visited during normal operating hours with visits lasting for one hour or for a complete watering cycle, whichever was greater. During the visits, irrigation watering practices were observed and noted. Inspections included communicating with site operators regarding recently implemented BMPs at each site and verifying BMPs that had been implemented in the past. Irrigation runoff was not observed and samples were not collected at any of the selected sites visited during the dry season. Photographs were taken at each site, and are included in Section 6.

A total of 74 samples have been collected by LAILG during the life of the program. The majority of the samples were collected during the first two years of the CWIL, prior to the suspension of the monitoring group. Samples were primarily from storm water runoff during the wet season; irrigated runoff from the dry season has not been encountered since 2008. This is in part due to a concerted effort by LAILG to educate growers on field conditions that were observed during sampling events, to eliminate dry season runoff. A summarized history of collected samples is presented on Table 4. A complete history of collected samples is presented in Appendix B.

Table 4 - Sampling Timeline

| | CWIL Order # R4-2005-0080 | | | | | | | | | | | | Total |
|-------------------------------|---------------------------|----------|------------|----------|---------------------|----------|------------|----------|------------|------------|------------|------------|-------|
| | YEAR 1 ¹ | | | | YEAR 2 ² | | | | YEAR 3 | | YEAR 4 | | |
| | Dry Season | | Wet Season | | Dry Season | | Wet Season | | Dry Season | Wet Season | Dry Season | Wet Season | |
| | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #1 | Event #1 | Event #1 | |
| Number of Samples Collected | 5 | 3 | 14 | 8 | 2 | 1 | 8 | 11 | 0 | ns* | 0 | ns* | 52 |
| Total Number of Sites Visited | 16 | 16 | 16 | 16 | 14 | 14 | 18 | 18 | 18 | N/A | 18 | N/A | 164 |

1 Wet Season sampling events took place over five storms due to localized rain patterns and a general lack of uniform storm intensity and duration.

2 Wet Season sampling events took place during two storm days where all sites were visited.

| | CWIL Order # R4-2010-0186 | | | | | | | | | | | | | | | | | | Total | | | |
|-------------------|-------------------------------------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-------|------------|----------|----------|
| | Interim Sampling Event ³ | YEAR 1 | | | | YEAR 2 | | | | YEAR 3 | | | | YEAR 4 | | | | YEAR 5 | | | | |
| | | Dry Season | | Wet Season | | Dry Season | | Wet Season | | Dry Season | | Wet Season | | Dry Season | | Wet Season | | Dry Season | | Wet Season | | |
| | | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | | Event #2 | Event #1 | Event #2 |
| Samples Collected | 4 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 2 | 0 | 22 |
| Sites Visited | 4 | 5 | 5 | 5 | 5 | 5 | na | na | 5 | 5 | 5 | na | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | na | 84 |

3 The previous CWIL (Order R4-2005-0080) was replaced on October 7, 2010 with the adoption of a new Waiver (Order R4-2010-0186). As a good faith measure, the LAILG conducted a sampling event during the wet season between the execution of the new CWIL and the required submittal date of an MRP on April 7, 2011.

| | CWIL Order # R4-2016-0143 | | | | Total |
|-------------------|---------------------------|--|----------|--|-------|
| | YEAR 1 ⁴ | | | | |
| | Dry Season | | | | |
| | Event #1 | | Event #2 | | |
| Samples Collected | 0 | | 0 | | 0 |
| Sites Visited | 5 | | 5 | | 10 |

4 Sites were sampled in the interim based on the MRP from CWIL Order R4-2010-0186.

5.0 WATER QUALITY BENCHMARKS

Samples were collected and analyzed as presented in the MRP and QAPP. Table 5 presents the list of constituents analyzed during this reporting period.

Table 5 - List of Constituents for Testing

| CONSTITUENT | UNITS | FIELD/LABORATORY TEST |
|------------------------------------|------------------------------|-----------------------|
| Flow | Cubic feet per second | Field |
| pH | pH units | Field |
| Temperature | °F | Field |
| Dissolved Oxygen | mg/L | Field |
| Turbidity | NTU | Field |
| Total Dissolved Solids | mg/L | Laboratory |
| Total Suspended Solids | mg/L | Laboratory |
| Hardness (as CaCO ₃) | mg/L | Laboratory |
| Chloride | mg/L | Laboratory |
| Ammonia | mg/L | Laboratory |
| Nitrate-Nitrogen | mg/L | Laboratory |
| Phosphate | mg/L | Laboratory |
| Sulfate | mg/L | Laboratory |
| Total Copper | ng/L | Laboratory |
| Organophosphate Suite ¹ | ng/L | Laboratory |
| Organochlorines Suite ² | ng/L | Laboratory |
| Toxaphene | ng/L | Laboratory |
| Pyrethroids | ng/L | Laboratory |
| Toxicity | TU _c ³ | Laboratory |
| Trash | Observations | Field |

¹ Organophosphate Suite: Bolstar, Chlorpyrifos, Demeton, Diazinon, Dichlorvos, Dimethoate, Disulfoton, Ethoprop, Fenchlorophos, Fensulfothion, Fenthion, Malathion, Merphos, Methyl Parathion, Mevinphos, Phorate, Tetrachlorvinphos, Tokuthion, Trichloronate.

² Organochlorine Suite: 2,4' - DDD, 2,4' - DDE, 2,4' DDT, 4,4' -DDD, 4,4' -DDE, 4,4' -DDT, Aldrin, BHC-alpha, BHC-beta, BHC-delta, BHC-gamma, Chlordane-alpha, Chlordane-gamma, Dieldrin, Endosulfan sulfate, Endosulfan-I, Endosulfan-II, Endrin, Endrin Aldehyde, Endrin Ketone.

³ Chronic Toxic Unit is the reciprocal of the sample concentration that caused no observable effect on the test organism by the end of a chronic toxicity test.

mg/l milligrams per liter
 ng/L nanograms per liter
 °F degrees Fahrenheit
 TU_c chronic toxic unit
 NTU nephelitic turbidity units

5.1 Water Quality Benchmarks

The following tables present water quality benchmarks that apply to this program. They are derived from language included in Appendix 1 and Appendix 2 of the Waiver, along with the Water Quality Control Plan Los Angeles Region (Basin Plan) objectives, California Toxics Rule benchmarks, USEPA ALB guidelines, and CCR Title 22 maximum contamination levels for municipal water (organic chemicals).

For the purpose of analysis, benchmarks are broken into four general groups: general chemistry (including nutrients), pesticides, toxicity, and field monitoring results.

General Chemistry

General Chemistry water quality objectives for each site were obtained from the *Water Quality Control Plan, Los Angeles Region*, dated June 13, 1994. To choose the most appropriate water quality objectives for each site, all sites were assumed to drain through storm drains that ran perpendicularly to the closest blue line stream. The most relevant stream reach and related water quality objectives were chosen for each site using this assumption. Table 6 outlines the site-specific water quality objectives and associated fixed sampling sites used to evaluate general chemistry results for this report. Rotating sites are evaluated on a case-by-case basis.

Table 6 - Water Quality Benchmarks, General Chemistry

| Watershed/stream reach | NGA Site # | Ammonia | TDS | Sulfate | Chloride | Nitrogen | TSS | Copper (µg/L) | Phosphate |
|---|------------------|---------|-------|---------|----------|----------|-----|--|-----------|
| Los Angeles River: | | | | | | | | | |
| Between Figueroa and Willow St. | 53, 81 | a) | 1,500 | 350 | 150 | 8 | — | $CCC=0.960e^{[(0.8545(\text{in hardness})) + (-1.702)]}$ | — |
| Above Figueroa St. | 19, 184 | a) | 950 | 300 | 150 | 8 | — | $CCC=0.960e^{[(0.8545(\text{in hardness})) + (-1.702)]}$ | — |
| Rio Hondo above Santa Ana Freeway | 125 | a) | 750 | 300 | 150 | 8 | — | $CCC=0.960e^{[(0.8545(\text{in hardness})) + (-1.702)]}$ | — |
| Pacoima Wash above Pacoima spreading grounds | 178 | a) | 250 | 30 | 10 | MUN | — | $CCC=0.960e^{[(0.8545(\text{in hardness})) + (-1.702)]}$ | — |
| San Gabriel River: | | | | | | | | | |
| Between Firestone Blvd. and San Gabriel River Estuary | 168, 64 | a) | MUN | | | | — | $CCC=0.960e^{[(0.8545(\text{in hardness})) + (-1.702)]}$ | — |
| Between Ramona and Firestone Blvd. | 11, 31, 189, 110 | a) | 750 | 300 | 150 | 8 | — | $CCC=0.960e^{[(0.8545(\text{in hardness})) + (-1.702)]}$ | — |
| Between Morris Dam and Ramona Blvd. | 150 | a) | 450 | 100 | 100 | 8 | — | $CCC=0.960e^{[(0.8545(\text{in hardness})) + (-1.702)]}$ | — |
| Dominguez Channel | 4 | a) | MUN | | | | — | $CCC=0.960e^{[(0.8545(\text{in hardness})) + (-1.702)]}$ | — |
| Santa Monica Bay | 176, 210 | a) | MUN | | | | — | $CCC=0.960e^{[(0.8545(\text{in hardness})) + (-1.702)]}$ | — |
| USEPA Municipal Drinking Water Standard | | a) | 500 | 250 | 400 | 10 | — | 1.3 (mg/L) | — |

* All limits are recorded for milligrams per liter (mg/L)

a) Limit varies as a factor of temperature and pH. Objectives based on corresponding field readings for WARM water (One-hour average concentration), as outlined in the Water Quality Control Plan, Los Angeles Region

MUN No site specific objectives have been established. Objectives are based on USEPA guidelines for municipal drinking water standards.

— No numeric benchmarks, water quality benchmarks shall be based on the surface water and groundwater basin objectives currently contained in the Water Quality Control Plan Los Angeles Region (Basin Plan) or other applicable water quality standards established for the Los Angeles Region.

Pesticides

Pesticide water quality objectives were taken from the Waiver, USEPA ALB guidelines, and the California Toxics Rule. Table 7 presents pesticide benchmarks outlined in the Waiver. Table 8 presents OC pesticide benchmarks outlined by the California Toxics Rule.

Table 7 - Water Quality Benchmarks, Pesticides, CWIL

| CONSTITUENT | UNITS | WATER QUALITY BENCHMARK |
|--------------|----------------------|-------------------------|
| Chlordane | µg/L | 0.00059 |
| 4,4' - DDT | µg/L | 0.00059 |
| 4,4' - DDD | µg/L | 0.00084 |
| DDE | µg/L | 0.00059 |
| Dieldrin | µg/L | 0.00014 |
| Toxaphene | µg/L | 0.00075 |
| Chlorpyrifos | µg/L | 0.025 |
| Diazinon | µg/L | 0.10 |
| µg/L | micrograms per liter | |

Table 8 - Additional Water Quality Benchmarks, Pesticides, California Toxics Rule

| CONSTITUENT | UNITS | WATER QUALITY BENCHMARK |
|----------------------------|-------|--|
| | | Human Health (30-day Average) Drinking Water Sources (consumption of water and aquatic organisms) |
| Aldrin | ug/L | 0.00013 |
| alpha-BHC | ug/L | 0.0039 |
| beta-BHC | ug/L | 0.014 |
| gamma-BHC (Lindane) | ug/L | 0.019 |
| Endosulfan and derivatives | ug/L | 110 |
| Endrin | ug/L | 0.76 |
| Endrin aldehyde | ug/L | 0.76 |
| Heptachlor | ug/L | 0.00021 |
| Heptachlor epoxide | ug/L | 0.0001 |

Table 9 presents ALB benchmarks for OP and pyrethroid pesticides. Any pesticide that exceeded the value reported for acute invertebrates were considered a water quality exceedance for LAILG evaluation purposes. The guidelines for acute invertebrates were chosen because historically the most sensitive species in toxicity testing was *Ceriodaphna dubia*, a species of water flea. The CWIL does not directly cover benchmarks for these constituents, and does not specifically require ALB benchmarks to be considered as WQBs.

Table 9 - Water Quality Benchmarks, Pesticides, Aquatic Life Benchmarks

| Pesticides | Footnote | CAS Number | Fish | | Invertebrates | | Nonvascular Plants | Vascular Plants | Office of Water Aquatic Life Criteria | |
|------------------------------|----------|------------|---------|-----------|---------------|-----------|--------------------|-----------------|---------------------------------------|--------------------------------|
| | | | Acute 1 | Chronic 2 | Acute 3 | Chronic 4 | Acute 5 | Acute 6 | Maximum Concentration (CMC) | Continuous Concentration (CCC) |
| OP Pesticides | | | | | | | | | | |
| Azinphos Methyl | 9 | 86-50-0 | 0.18 | 0.055 | 0.08 | 0.036 | — | — | — | — |
| Coumaphos | 10 | 56-72-4 | 140 | 11.7 | 0.037 | 0.0337 | — | — | — | — |
| Dichlovos (DDVP) | | 62-73-7 | 91.50 | 5.200 | 0.035 | 0.0058 | 14,000 | — | — | — |
| Dimethoate | 9 | 60-51-5 | 3100 | 430 | 21.5 | 0.5 | 84 | — | — | — |
| Disulfoton | 9 | 298-04-4 | 19.5 | 4 | 1.95 | 0.01 | — | — | — | — |
| Ethoprop | | 13194-48-4 | 150 | 24 | 22 | 0.8 | 8,400 | — | — | — |
| Fenthion | 8 | 55-38-9 | 415 | 7.5 | 2.6 | 0.013 | 400 | > 2,800 | — | — |
| Malathion | | 121-75-5 | 16.5 | 8.6 | 0.295 | 0.035 | 2,400 | >9,630 | — | 0.1 |
| Methyl Parathion | 13 | 298-00-0 | 925 | < 10 | 0.485 | 0.25 | 15,000 | 18,000 | — | — |
| Naled | | 300-76-5 | 46 | 2.9 | 0.07 | 0.045 | 25 | > 1,800 | — | — |
| Phorate | 8 | 298-02-2 | 1.175 | 0.34 | 0.3 | 0.21 | > 1,300 | — | — | — |
| Pyrethroid Pesticides | | | | | | | | | | |
| Allethrin | | 584-79-2 | 9.5 | — | 1.05 | — | — | — | — | — |
| Bifenthrin | | 82657-04-3 | 0.075 | 0.04 | 0.8 | 0.0013 | — | — | — | — |
| Cyfluthrin | | 68359-37-5 | 0.034 | 0.01 | 0.0125 | 0.0074 | <181 | — | — | — |
| Cypermethrin | | 52315-07-8 | 0.195 | 0.14 | 0.21 | 0.069 | — | — | — | — |
| Fenpropathrin (Danitol) | | 64257-84-7 | 1.1 | 0.091 | 0.265 | 0.064 | — | — | — | — |
| Deltamethrin | | 52918-63-5 | 0.29 | 0.017 | 0.055 | 0.0041 | — | — | — | — |
| Esfenvalerate | 9 | 66230-04-4 | 0.035 | 0.035 | 0.025 | 0.017 | — | — | — | — |
| Lambda-cyhalothrin | | 91465-08-6 | 0.105 | 0.031 | 0.0035 | 0.002 | > 310 | — | — | — |
| Pendimethalin | | 40487-42-1 | 69 | 6.3 | 140 | 14.5 | 5.2 | 12.5 | — | — |
| Permethrin | 16 | 52645-53-1 | 0.395 | 0.0515 | 0.0106 | 0.0014 | 68 | — | — | — |
| Prallethrin | | 23031-36-9 | 6 | 3 | 3.1 | 0.65 | — | — | — | — |
| Sumithrin | | 26002-80-2 | 7.9 | 1.1 | 2.2 | 0.47 | — | — | — | — |
| Telfluthrin | | 79538-32-2 | 0.03 | 0.004 | 0.035 | 0.008 | — | — | — | — |

Limits Reported in ug/L

⁸ Because the underlying toxicity value is a "greater-than" value (such as >265,000), this benchmark may overestimate toxicity.

⁹ The chronic benchmark is based on the acute toxicity value (which was lower than the lowest available chronic toxicity value), and therefore may underestimate chronic

¹⁰ Although the underlying acute toxicity value is greater than or equal to the chronic toxicity value, the acute benchmark is lower than the chronic benchmark because acute and chronic toxicity values were multiplied by LOC values of 0.5 and 1, respectively.

¹³ Because the underlying toxicity value is a "less-than" value (such as <1,500), this benchmark may underestimate toxicity.

¹⁶ Toxicity values and benchmarks apply to permethrin. If monitoring data represent only the *cis* isomer of permethrin in water, comparison with benchmarks may underestimate potential toxicity.

Toxicity

Toxicity water quality objectives were determined as outlined in the MRP and QAPP, and through communications with ABC laboratory. Because tests are run on 100% concentration of samples (no dilution water), numerical values of TUC cannot be accurately determined. Due to the lack of TUC values, a TIE was generally run on samples that exhibited a high mortality. Chronic toxicity testing was conducted for *Pimephales promelas* (fathead minnow), *Ceriodaphnia* (water flea), and *Selenastrum capricornutum* (green algae).

Adequate sample volume was collected during sampling events so that TIE procedures could be initiated as soon as possible after toxicity was observed. TIE testing was only initiated if initial testing indicated the presence of significant toxicity in the sample. For the purpose of triggering TIE procedures, significant toxicity was defined as at least 50 percent mortality or a 50 percent reduction in growth. The 50 percent threshold is consistent with the approach recommended in guidance published by the EPA for conducting TIEs, which recommends a minimum threshold of 50 percent mortality because the probability of completing a successful TIE decreases rapidly for samples with less than this level of toxicity.

Field Monitoring

For field monitoring results, the Basin Plan for the Los Angeles Region contains narrative objectives for certain chemicals, most notably: biostimulatory substances, temperature, pH, turbidity, and Total Suspended Solids. Table 10 presents field monitoring and toxicity benchmarks, as outlined in the Los Angeles Basin Plan. These narrative objectives contain verbiage stating that the natural or ambient conditions of receiving waters are not to be altered by discharges, including some of the constituents listed above. This is problematic, as natural or ambient conditions have not been established in many receiving waters, and discharges from growing operations in the urban Los Angeles Region drain primarily to storm drains. The ultimate endpoint of these storm drains are not well mapped or established, and are commingled with discharges from a number of land use types. Due to the difficulty in ascertaining the impacts to receiving waters, it is assumed in this report that discharges do not affect the receiving water bodies in a large enough magnitude to alter natural or ambient conditions.

Table 10 - Water Quality Benchmarks, Field Monitoring and Toxicity

| Constituent | Narrative Objective | Applicable Benchmarks |
|-------------------------------------|--|--|
| pH | The pH of inland surface water shall not be depressed below 6.5 or raised above 8.5 as a result of waste discharges. Ambient pH levels shall not be changed by more than 0.5 pH units from natural conditions as a result of waste discharges. | 6.5 ≤ pH ≤ 8.5 Changes to ambient receiving water conditions are not assessed; "ambient" or "natural" conditions have not been established |
| Temperature | For water designated WARM, water temperature shall not be altered by more than 5°F above natural temperature. At no time shall WARM-designated waters be raised above 80°F as a result of water discharge | WARM: ≤ 80°F Changes to ambient receiving water conditions are not assessed; "ambient" or "natural" conditions have not been established |
| | For waters designated as COLD, water temperature shall not be altered by more than 5°F above the natural temperature. | COLD: No numeric benchmark. Changes to ambient receiving water conditions are not assessed; "ambient" or "natural" conditions have not been established. |
| Dissolved Oxygen | No single dissolved oxygen determination shall be less than 5 mg/L, except when natural conditions cause lesser concentrations. | ≥ 5 mg/L |
| | The dissolved oxygen content of all surface waters designated as WARM shall not be depressed below 5 mg/L as a result of waste discharge. | WARM: ≥ 5 mg/L |
| | The dissolved oxygen content of all surface waters designated as COLD and SPWN shall not be depressed below 7 mg/L as a result of waste discharge. | COLD, SPWN: ≥ 7 mg/L |
| Turbidity | Waters shall be free of changes in turbidity that cause nuisance or adversely affect beneficial uses. Increases in natural turbidity attribute to controllable water quality factors shall not exceed the following limits: Where natural turbidity is between 0 and 50 NTU, increases shall not exceed 20%. Where natural turbidity is greater than 50 NTU, increases shall not exceed 10%. | No Numeric benchmarks. Changes to ambient receiving water conditions are not assessed; "ambient" or "natural" conditions have not been established. |
| Toxicity | All waters shall be free of toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in human, plant, animal or aquatic life. There shall be no chronic toxicity in ambient waters outside mixing zones. | ≤ 1.0 Tuc ^[3] |
| Biostimulatory Substances | Waters shall not contain biostimulatory substances in concentrations that promote aquatic growth to the extent that such growth causes nuisance or adversely affect beneficial uses. | No Numeric benchmarks. Nutrients listed on Table X. |
| Total Suspended Solids (TSS) | Waters shall not contain suspended material in concentrations that cause nuisance or adversely affect beneficial uses. | No numeric benchmarks. |

6.0 INDIVIDUAL SAMPLING SITE RESULTS

6.1 SAMPLING SITES

This section presents current and historical sampling events on a site by site basis for sampling sites chosen for this program. Information includes: a summary of detected constituents from water quality sampling, photographs from visits conducted during the third year of the current program, site maps, and basic site information. All permanent sampling sites are included, along with the rotating sampling sites that were visited this sampling year. Samples collected from sampling sites that are no longer operating or from rotating sampling sites not visited this quarter are evaluated in Section 7 and included in Appendix B, but are not presented in this section.

A complete tabulated summary of results from this sampling year, along with historical sampling results, is presented in Appendix B. Laboratory analytical results for samples collected during this sampling year are included in Appendix C.

6.1.1 GROUP 1

NGA SITE #19

Sampling Group: Group 1

Sampling Frequency - Fixed

Total / Irrigated Acres: 32.0/14.7 Acres

Sample site GPS location: N 34° 09' 51.1" W 118° 38' 2.07"

September 2, 2016, dry season, no sample collected



Site Drainage - The main area of the site drains eastward onto Valley Circle Boulevard. Based on site topography, the eastern edge of the site along Valley Circle Boulevard was chosen as the sampling location.

Sampling - Seven samples collected to date. This site was visited during the first dry season sampling event during this sampling year; no runoff was observed.

Historical sampling results for this site are presented in Table 11.

Aerial photography of the site is presented on Figure 2.

Table 2 - Summary of samples collected, NGA #19

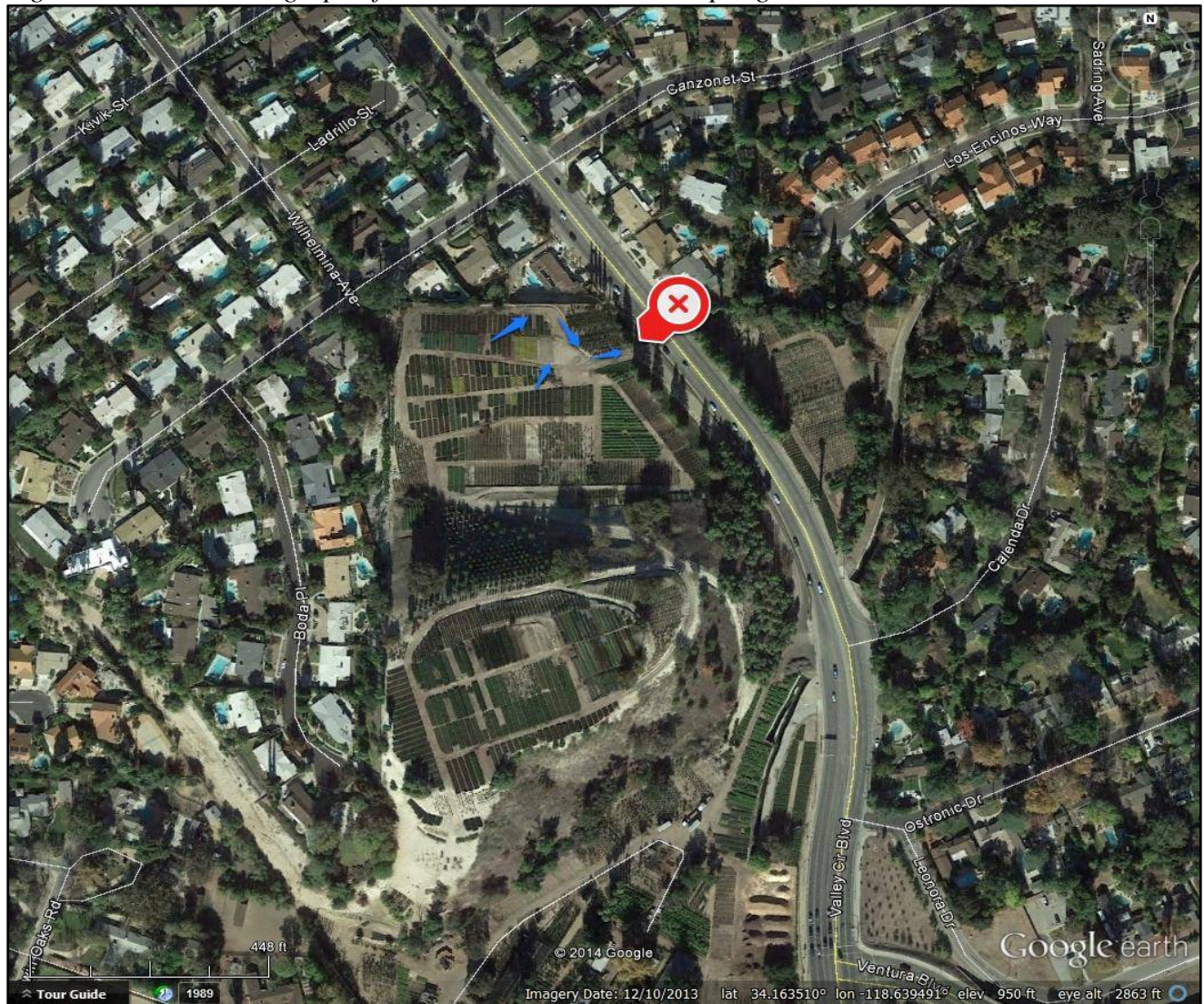
| Site | Sample # | Date | General Chemistry (mg/L) | | | | | | | | | | | | |
|---------|-----------------|----------|--------------------------|---------------|------------|--------------|---------------|-----------------|--------------|-------------|------------|-----|-----------------------------------|-----|-------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO ₃ | Ca | Cu |
| NGA #19 | NGA-#19-LAILG-1 | 8/13/07 | 1 | 108.57 | 2.2882 | 10.84 | 118.85 | 2.68 | 772 | 4.62 | 5.09 | 568 | na | na | na |
| NGA #19 | LAILG-NGA#19-2 | 12/18/07 | 1.4 | 162.66 | 11.2352 | 86.7 | 290.99 | 2.13 | 1,292 | 4.01 | 5.544 | 684 | na | na | na |
| NGA #19 | LAILG-NGA 19-3 | 1/5/08 | 0.12 | 157.52 | 0.2125 | 0.44 | 451.78 | 0.96 | 1,030 | 1.26 | 1.173 | 84 | na | na | na |
| NGA #19 | LAILG-NGA 19-4 | 8/12/08 | 0.03 | 104.03 | 1.1877 | 12.65 | 107.33 | 1.75 | 834 | 1.86 | 15.494 | 213 | na | na | na |
| NGA #19 | LAILG-NGA 19-5 | 11/26/08 | 0.96 | 115.72 | 1.507 | 26.94 | 126.35 | 1.356 | 748 | 4.69 | 4.884 | 995 | na | na | na |
| NGA #19 | LAILG-NGA 19-6 | 3/23/11 | 0.54 | 110 | 0.86 | 55 | 250 | 1.1 | 1,200 | 0.860 | 3.4 | 550 | 440 | 180 | 0.090 |
| NGA #19 | LAILG-NGA 19-7 | 2/28/14 | 1.4 | 120 | 2.400** | 53 | 160 | 2.8 | 1,000 | 2.4** | 4.7 | 650 | 319 | 128 | 0.056 |

| Site | Sample # | Date | OC Pesticides (ng/L) | | OP Pesticides (ng/L) | | | Pyd Pesticides (ng/L) |
|---------|-----------------|----------|---------------------------|-----------------|----------------------|----------|-----------|---------------------------------------|
| | | | Total DDT and Derivatives | Total Chlordane | Chlorpyrifos | Diazinon | Malathion | Total sum of all detected Pyrethroids |
| NGA #19 | NGA-#19-LAILG-1 | 8/13/07 | nd | nd | nd | nd | nd | 0 |
| NGA #19 | LAILG-NGA#19-2 | 12/18/07 | nd | 2.4 | nd | 15 | 2,291.3 | 1,814 |
| NGA #19 | LAILG-NGA 19-3 | 1/5/08 | 5.6 | 14 | nd | nd | nd | 6.8 |
| NGA #19 | LAILG-NGA 19-4 | 8/12/08 | nd | 1.3 | nd | nd | nd | 91.8 |
| NGA #19 | LAILG-NGA 19-5 | 11/26/08 | 24.7 | 6.6 | 130.1 | 32.6 | nd | 2,236.2 |
| NGA #19 | LAILG-NGA 19-6 | 3/23/11 | nd | nd | 25 | nd | nd | 29 |
| NGA #19 | LAILG-NGA 19-7 | 2/28/14 | nd | nd | 22 | nd | nd | 30 |

Results above CWIL Limits are presented in **BOLD**.

mg/L milligrams per liter
 ng/L nanograms per liter
 OC Organochlorinated Pesticide
 OP Organophosphorus Pesticide
 Pyd Pyrethroid Pesticide
 na Constituent not analyzed
 nd Constituent not detected

Figure 2 – Aerial Photograph of NGA #19 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

NGA SITE #124/125

Sampling Group: Group 1

Sampling Frequency - Fixed

Total/Irrigated Acres: 10.4/8.3 Acres

Sample site GPS location: N 34° 05' 56.9" W 118° 04' 56.0"

September 20, 2016, dry season, no sample collected



Site Drainage - The site drains southward into a gravel bed along the southern border of the property, near the railroad tracks. Based on drainage and runoff indicators, the south/southwest edge of the property was chosen as the sampling location.

Sampling - Seven samples collected to date. This site was visited during the second dry season sampling event during this sampling year; no runoff was observed.

Historical sampling results for this site are presented in Table 12.

Aerial photography of the site is presented on Figure 3.

Table 3 - Summary of samples collected, NGA #124

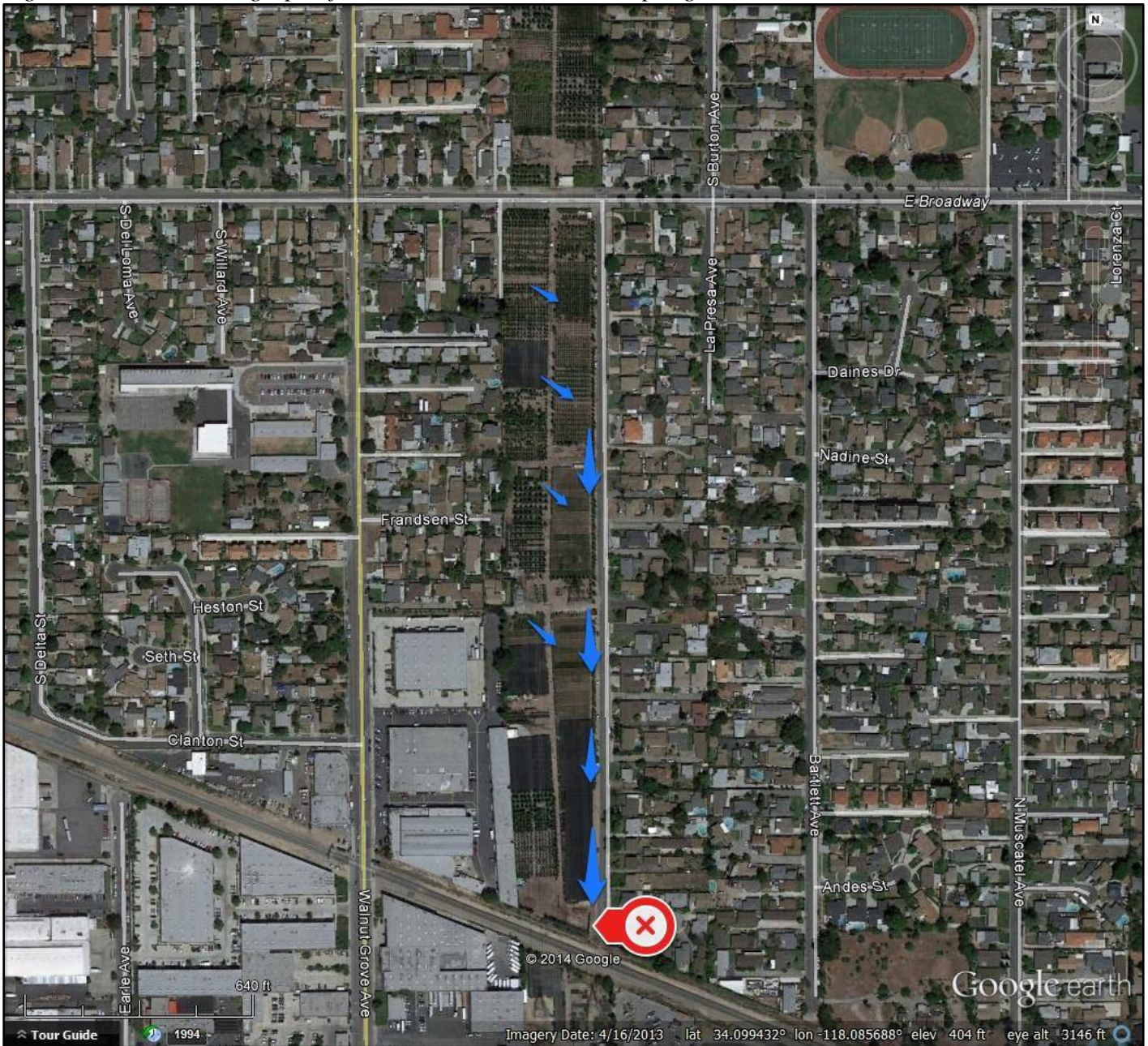
| Site | Sample # | Date | General Chemistry (mg/L) | | | | | | | | | | | | |
|----------|------------------|----------|--------------------------|----------|------------|--------------|---------|-----------------|--------------|-------------|------------|-------|-----------------------|------|-------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO3 | Ca | Cu |
| NGA #124 | NGA-#124-LAILG-1 | 8/13/07 | 9.8 | 69.23 | 3.5006 | 72.48 | 206.25 | 4.31 | 1,002 | 3.96 | 4.627 | 99.5 | na | na | na |
| NGA #124 | NGA-#124-LAILG-2 | 12/7/07 | 4.6 | 33.03 | 3.9247 | 45.41 | 59.24 | 2.9 | 550 | 2.76 | 3.168 | 90 | na | na | na |
| NGA #124 | LAILG-NGA#124-3 | 1/5/08 | 15.5 | 28.3 | 0.9814 | 28.34 | 57.68 | 1.66 | 378 | 1.66 | 2.228 | 40 | na | na | na |
| NGA #124 | LAILG-NGA#124-4 | 11/26/08 | 0.48 | 37.78 | 2.595 | 28.36 | 84.22 | 2.975 | 568 | 2.53 | 3.297 | 117 | na | na | na |
| NGA #124 | LAILG-NGA 124-5 | 12/15/08 | 1.68 | 26.51 | 24.4087 | 40.43 | 45.28 | 21.115 | 424 | 3.66 | 2.706 | 115.5 | na | na | na |
| NGA #124 | LAILG-NGA 124-6 | 3/21/11 | 0.36 | 9.4 | 1.8 | 6.7 | 24 | 1.8 | 240 | 1.800 | 2.7 | 620 | 61 | 24 | 0.045 |
| NGA #124 | LAILG-NGA 124-7 | 2/28/14 | 4.5 | 21 | 1.200** | 13 | 100 | 1.5 | 420 | 1.2 | 2.2 | 160 | 125 | 50.2 | 0.049 |

| Site | Sample # | Date | OC Pesticides (ng/L) | | | OP Pesticides (ng/L) | | Pyd Pesticides (ng/L) |
|----------|------------------|----------|---------------------------|-----------|-----------------|----------------------|-----------|---------------------------------------|
| | | | Total DDT and Derivatives | Dieldrin | Total Chlordane | Chlorpyrifos | Malathion | Total sum of all detected Pyrethroids |
| NGA #124 | NGA-#124-LAILG-1 | 8/13/07 | 51.5 | na | 34 | nd | nd | 136.9 |
| NGA #124 | NGA-#124-LAILG-2 | 12/7/07 | 37.4 | na | 11.4 | nd | nd | 3,704.3 |
| NGA #124 | LAILG-NGA#124-3 | 1/5/08 | nd | na | 17.1 | nd | nd | 1,898.6 |
| NGA #124 | LAILG-NGA#124-4 | 11/26/08 | 19.3 | na | 8.2 | nd | nd | 7,536.1 |
| NGA #124 | LAILG-NGA 124-5 | 12/15/08 | 10.4 | na | 13.6 | nd | 85.3 | 19,281.3 |
| NGA #124 | LAILG-NGA 124-6 | 3/21/11 | nd | 33 | nd | 10 | nd | 169.8 |
| NGA #124 | LAILG-NGA 124-7 | 2/28/14 | nd | nd | nd | 17 | 13 | 3,916 |

Results above CWIL Limits are presented in **BOLD**.

mg/L milligrams per liter
 ng/L nanograms per liter
 OC Organochlorinated Pesticide
 OP Organophosphorus Pesticide
 Pyd Pyrethroid Pesticide
 na Constituent not analyzed
 nd Constituent not detected

Figure 3 – Aerial Photograph of NGA #124 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

NGA SITE #178

Sampling Group: Group 1

Sampling Frequency - Fixed

Total/Irrigated Area: 10.0/8.5 Acres

Sample site GPS location: N 34° 17' 57.42" W 118° 25' 06.46"

September 20, 2016, dry season, no sample collected



Site Drainage - The drainage gradient flows to the south, through a channel that crosses the property. Based on drainage properties, the end of the channel was identified as the anticipated sampling location.

Sampling - Two samples collected to date. This site was visited during the second dry season sampling event during this sampling year; not enough runoff was observed to collect a sample.

Historical sampling results for this site are presented in Table 13.

Aerial photography of the site is presented on Figure 4.

Table 4 - Summary of samples collected, NGA #178

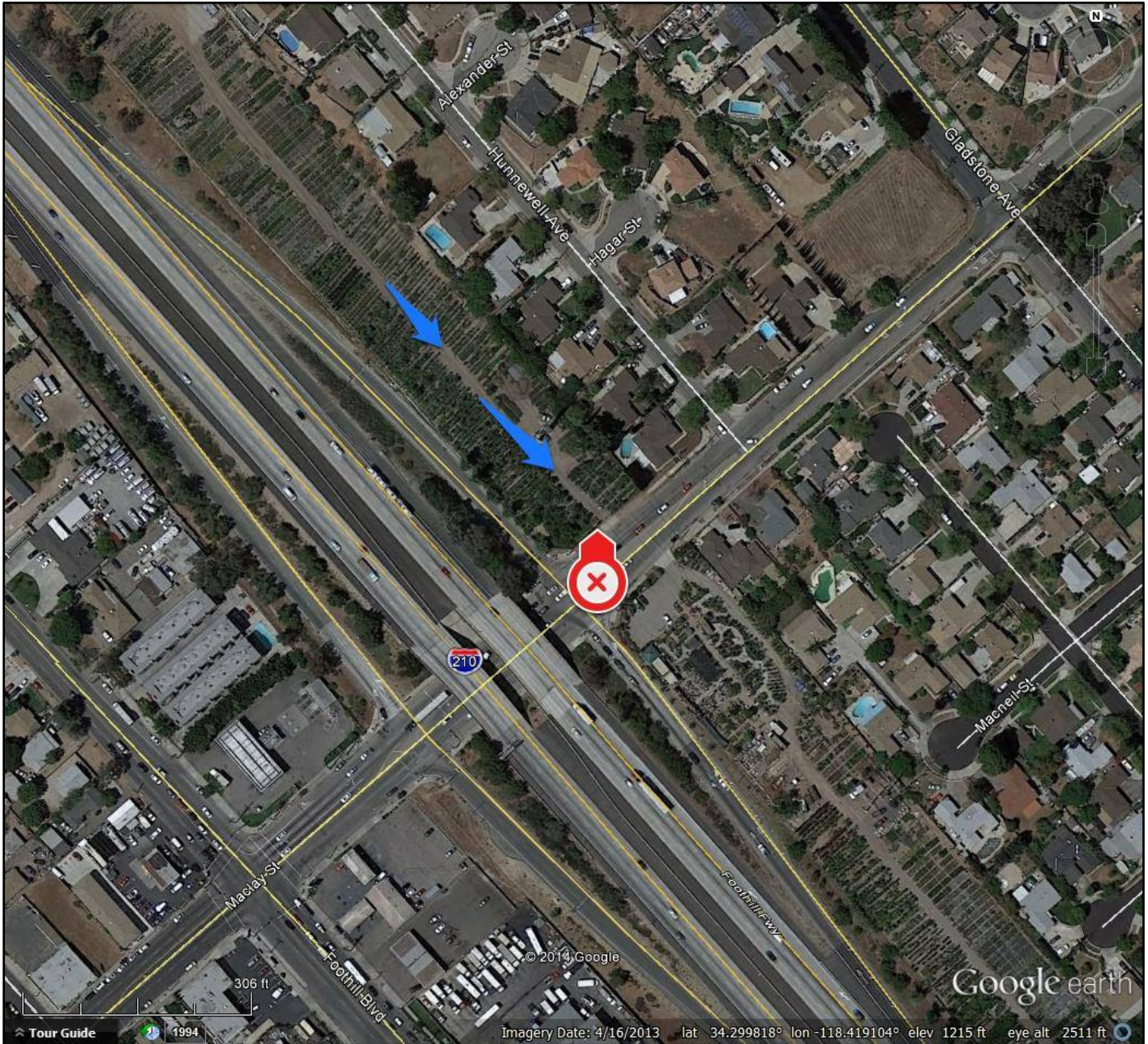
| Site | Sample # | Date | General Chemistry (mg/L) | | | | | | | | | | | | |
|-----------|-----------------|----------|--------------------------|--------------|------------|--------------|---------------|-----------------|------------|-------------|------------|------|-----------------------|-----|-------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO3 | Ca | Cu |
| NGA # 178 | LAILG-NGA 178-1 | 12/15/08 | 0.81 | 85.04 | 2.4077 | 12.99 | 148.27 | 2.648 | 462 | 2.64 | 2.934 | 72.7 | na | na | na |
| NGA # 178 | LAILG-NGA 178-2 | 2/28/14 | 0.87 | 120 | 2.200** | 10 | 370 | 2.4 | 940 | 2.2 | 3.6 | 270 | 324 | 130 | 0.030 |

| Site | Sample # | Date | OC Pesticides (ng/L) | OP Pesticides (ng/L) | Pyd Pesticides (ng/L) |
|-----------|-----------------|----------|---------------------------|---------------------------|---------------------------------------|
| | | | Total DDT and Derivatives | No OP Pesticides Detected | Total sum of all detected Pyrethroids |
| NGA # 178 | LAILG-NGA 178-1 | 12/15/08 | 25.3 | No OP Pesticides Detected | 4.9 |
| NGA # 178 | LAILG-NGA 178-2 | 2/28/14 | nd | | 40 |

Results above CWIL Limits are presented in **BOLD**.

mg/L milligrams per liter
 ng/L nanograms per liter
 OC Organochlorinated Pesticide
 OP Organophosphorus Pesticide
 Pyd Pyrethroid Pesticide
 na Constituent not analyzed
 nd Constituent not detected

Figure 4 – Aerial Photograph of NGA #178 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

NGA SITE #184

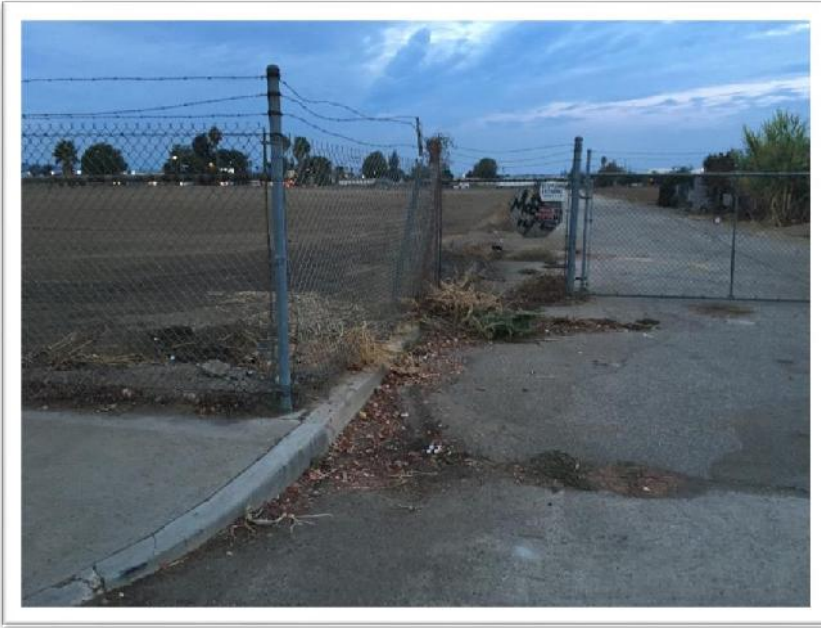
Sampling Group: Group 1

Sampling Frequency - Fixed

Total/Irrigated Area: 36.0/36.0 Acres

Sample site GPS location: N 34° 13' 29.41" W 118° 29' 22.83"

September 20, 2016, dry season, no sample collected



Site Drainage - The site is split into three lots, with the northern section selected as the sampling location based on site topology and drainage patterns. The northern section is a five-acre lot with a drainage gradient flowing to the north. Water flows into a drainage ditch along the eastern side of the property and flows south onto Chase Street. Based on drainage properties, the point of exit from the property onto Chase Street was identified as the anticipated sampling location.

Sampling - Three samples collected to date. This site was visited during the second dry season sampling event during this sampling year; no runoff was observed.

Historical sampling results for this site are presented in Table 14.

Aerial photography of the site is presented on Figure 5.

Table 5 - Summary of samples collected, NGA #184

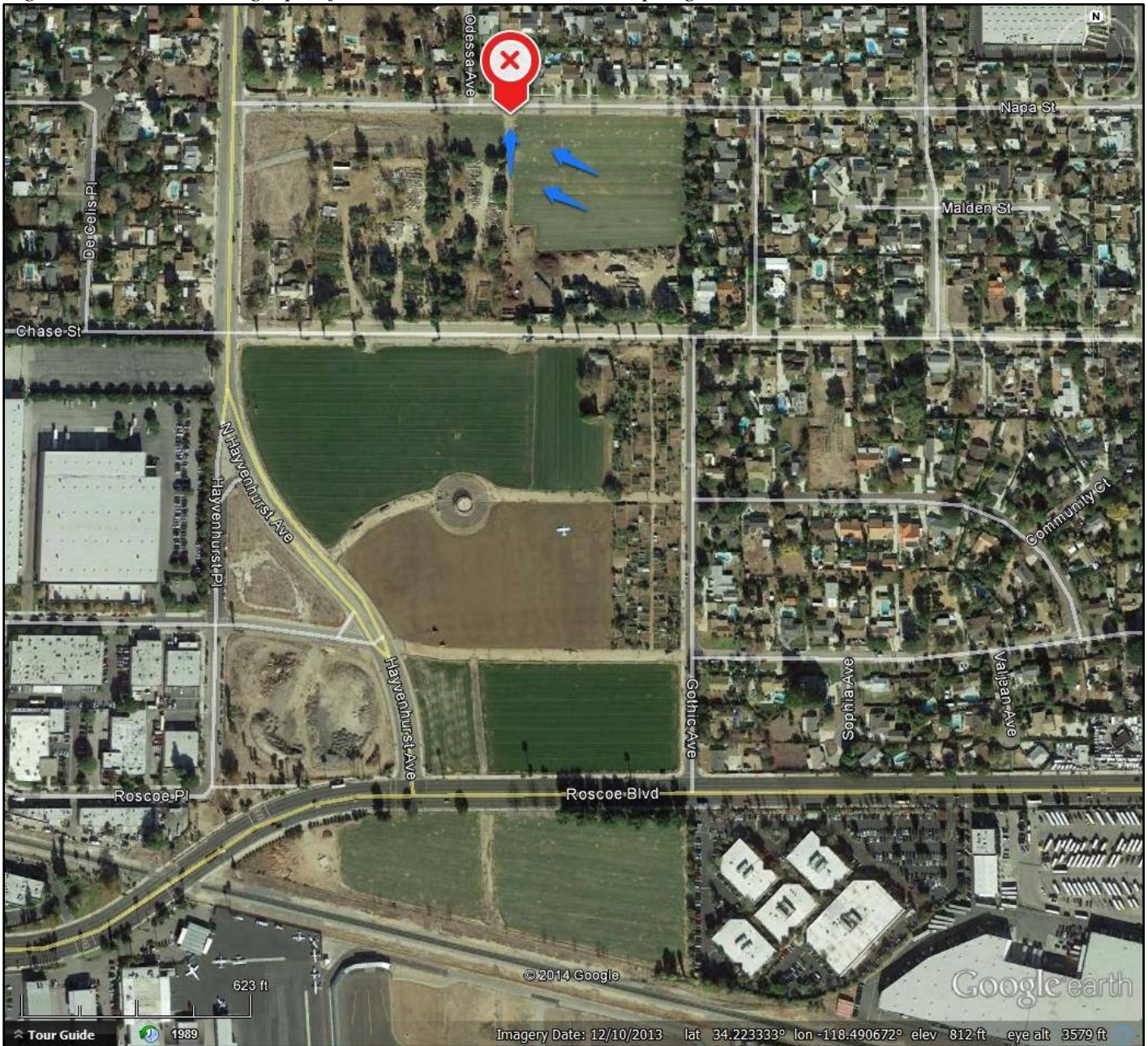
| Site | Sample # | Date | General Chemistry (mg/L) | | | | | | | | | | | | |
|----------|-----------------|----------|--------------------------|----------|------------|---------|---------|-----------------|-----|-------------|------------|-------|-----------------------|------|--------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO3 | Ca | Cu |
| NGA #184 | LAILG-NGA 184-1 | 11/26/08 | 0.46 | 31.44 | 0.609 | 3.12 | 17.92 | 0.643 | 206 | 0.88 | 1.3 | 129.5 | na | na | na |
| NGA #184 | LAILG-NGA 184-2 | 12/15/08 | 0.64 | 27.46 | 0.7339 | 4.41 | 33.57 | 0.502 | 240 | 2.16 | 2.94 | 1,079 | na | na | na |
| NGA #184 | LAILG-NGA 184-3 | 2/28/14 | 0.23 | 2.5 | 0.33 | 0.4 | 1.6 | 0.44 | 41 | 0.33 | 0.72 | 160 | 13.8 | 5.54 | 0.0079 |

| Site | Sample # | Date | OC Pesticides (ng/L) | | OP Pesticides (ng/L) | Pyd Pesticides (ng/L) |
|----------|-----------------|----------|---------------------------|-----------------|---------------------------|---------------------------------------|
| | | | Total DDT and Derivatives | Total Chlordane | No OP Pesticides Detected | Total sum of all detected Pyrethroids |
| NGA #184 | LAILG-NGA 184-1 | 11/26/08 | nd | nd | No OP Pesticides Detected | 3.1 |
| NGA #184 | LAILG-NGA 184-2 | 12/15/08 | 22 | 4.2 | | 30.7 |
| NGA #184 | LAILG-NGA 184-3 | 2/28/14 | nd | nd | | 2.5 |

Results above CWIL Limits are presented in **BOLD**.

mg/L milligrams per liter
 ng/L nanograms per liter
 OC Organochlorinated Pesticide
 OP Organophosphorus Pesticide
 Pyd Pyrethroid Pesticide
 na Constituent not analyzed
 nd Constituent not detected

Figure 5 – Aerial Photograph of NGA #184 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

6.1.2 GROUP 2

NGA SITE #11

Sampling Group: Group 2

Sampling Frequency - Fixed

Total/Irrigated Acres: 10/7.5 Acres

Sample site GPS location: N 34° 06' 38.4" W 117° 54' 41.5"

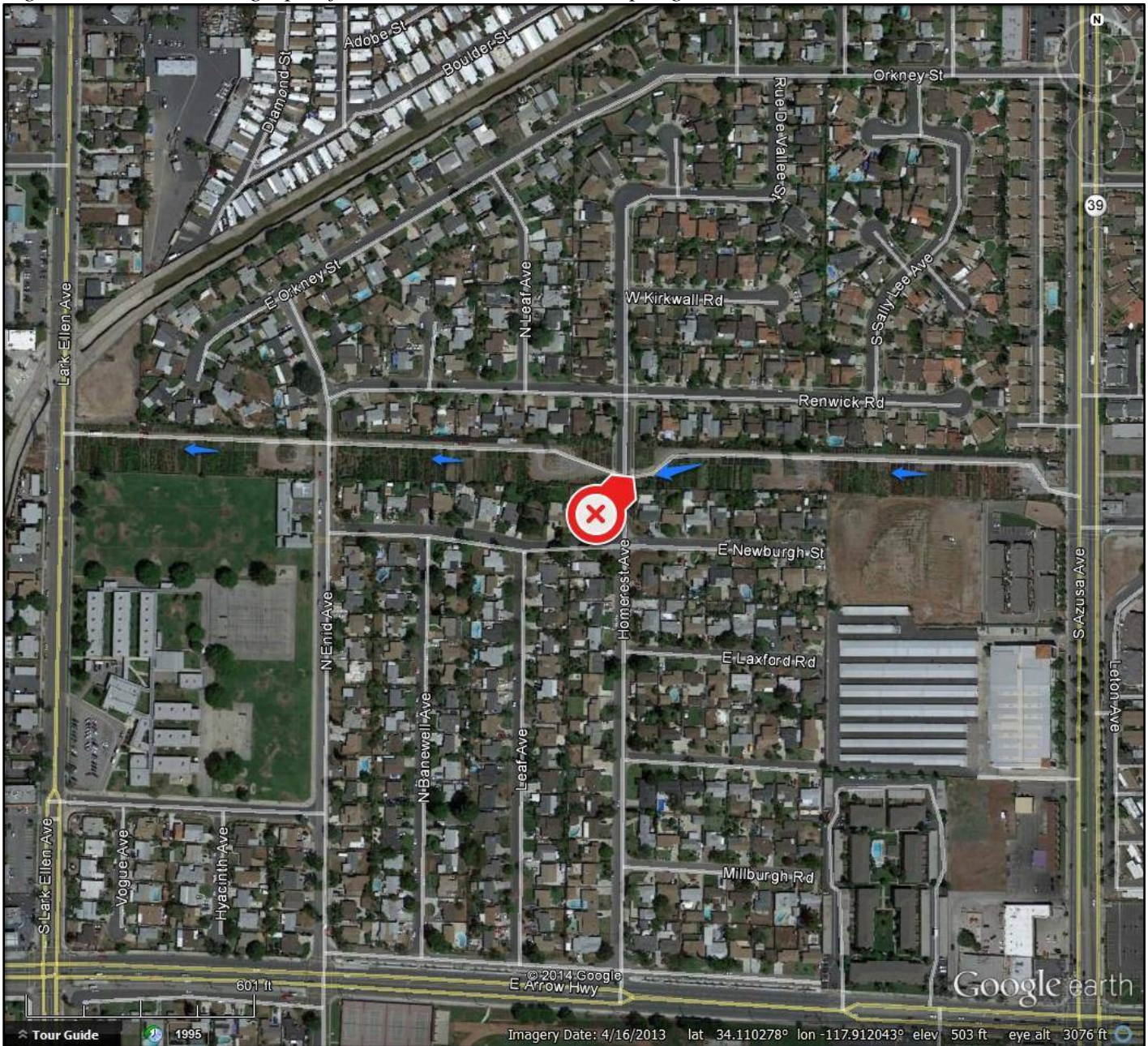
Site Drainage - The topography is relatively flat, and drains west as surface flow. Based on drainage properties and site access, the western gate of the eastern property was chosen as the most likely sampling location.

Sampling - No samples collected to date. This site was not visited during this sampling year.

There are no historical sampling results for this site.

Aerial photography of the site is presented on Figure 6.

Figure 6 – Aerial Photograph of NGA #11 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

NGA SITE #109/110

Sampling Group: Group 2
Sampling Frequency - Fixed
Total/Irrigated Acres: 1.8/1.0 Acres
Sample site GPS location: N 34° 07' 4.8" W 117° 52' 22.8"

Site Drainage - The site drains southward into a dirt road and eventually to Big Dalton Wash. Based on drainage and runoff indicators, the southern edge of the property exhibiting the most flow will be chosen as the sampling location.

Sampling - Two samples collected to date. No samples have been collected since 2008, after BMP improvements were implemented. This site was not visited during this sampling year.

Historical sampling results for this site are presented in Table 15.

Aerial photography of the site is presented on Figure 7.

Table 6 - Summary of samples collected, NGA #109/110

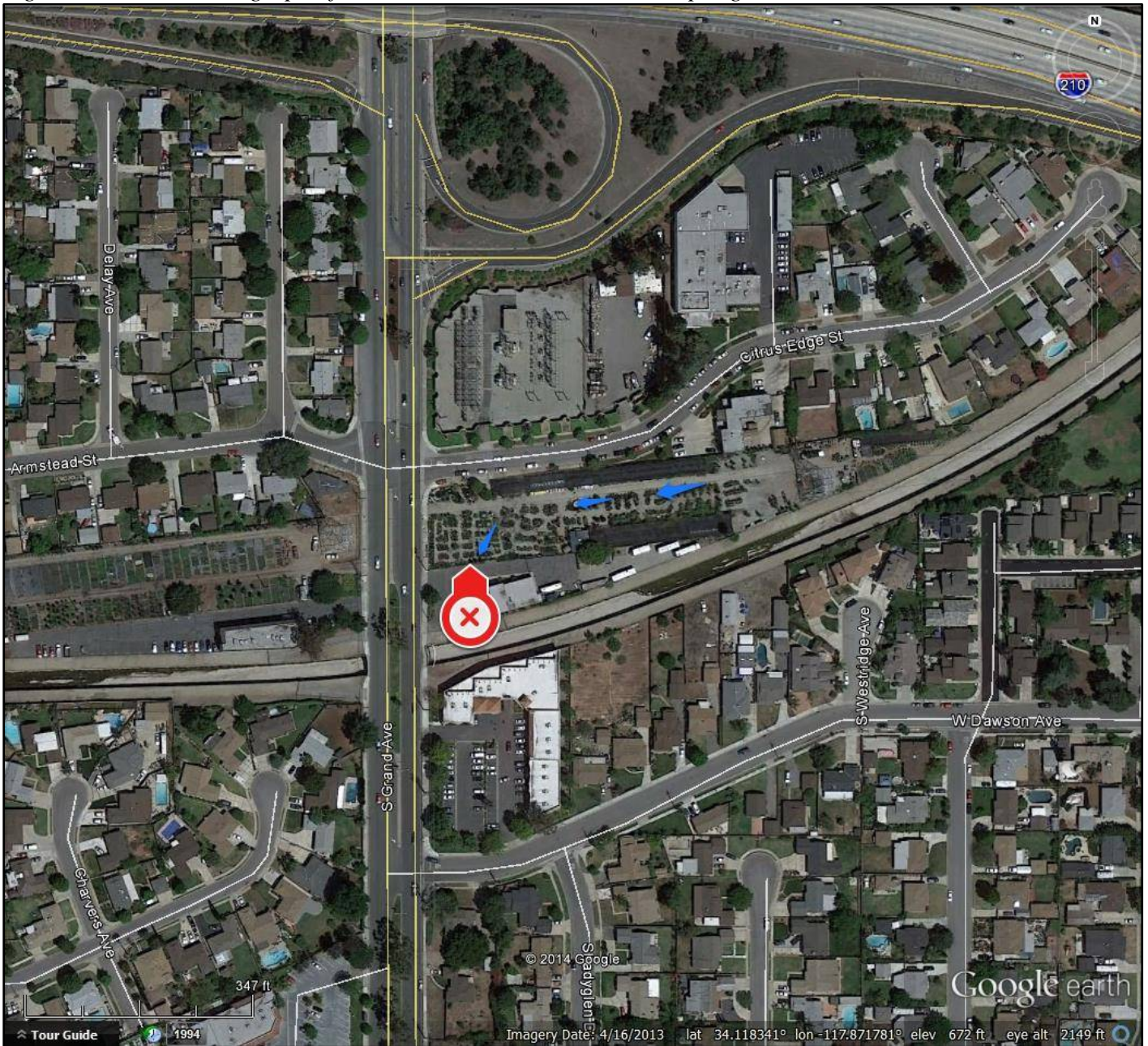
| Site | Sample # | Date | General Chemistry (mg/L) | | | | | | | | | |
|-----------|-----------------|----------|--------------------------|----------|------------|-------------|---------|-----------------|-----|-------------|------------|-----|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS |
| NGA #110 | LAILG-NGA110-1 | 1/4/08 | 0.41 | 10.65 | 1.3052 | 2.36 | 18.22 | 1.74 | 162 | 1.81 | 2.033 | 24 |
| NGA # 110 | LAILG-NGA 110-2 | 12/15/08 | 0.31 | 28.59 | 1.186 | 8.48 | 50.87 | 1.469 | 328 | 1.6 | 1.868 | 93 |

| Site | Sample # | Date | OC Pesticides (ng/L) | | OP Pesticides (ng/L) | | Pyd Pesticides (ng/L) |
|-----------|-----------------|----------|---------------------------|------------------------|----------------------|--------------|---------------------------|
| | | | Total DDT and Derivatives | No Detected Chlordanes | Chlorpyrifos | Diazinon | Total DDT and Derivatives |
| NGA #110 | LAILG-NGA110-1 | 1/4/08 | nd | No Detected Chlordanes | 88.5 | 534.8 | 0 |
| NGA # 110 | LAILG-NGA 110-2 | 12/15/08 | 6.2 | | nd | 79.8 | 67.2 |

Results above CWIL Limits are presented in **BOLD**.

mg/L milligrams per liter
 ng/L nanograms per liter
 OC Organochlorinated Pesticide
 OP Organophosphorus Pesticide
 Pyd Pyrethroid Pesticide
 na Constituent not analyzed
 nd Constituent not detected

Figure 7 – Aerial Photograph of NGA #109/110 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

NGA SITE #150

Sampling Group: Group 2
Sampling Frequency - Fixed
Total/Irrigated Acres: 26.0/15.3 Acres
Sample site GPS location: N 34° 08' 27.3" W 117° 55' 33.8"

September 20, 2016, dry season, no sample collected



Site Drainage – The majority of the growing areas of the site drain to the center, where there is a sump pump which catches and re-routes all the irrigation and storm runoff from the site into two collection ponds for reuse. The portion of the property that was formerly the sampling location has been sold to the neighbor, and no longer has any irrigated lands. Based on the new site layout, there are concrete gutters that drain the paved portions of the site where temporary plant storage is located for shipping. The end of the gutter was chosen as the sampling location, prior to comingling with the neighboring property and entering the storm drain.

Sampling - Six samples collected to date. This site was visited during the first wet season sampling event during this sampling year; not enough runoff was observed to collect a sample.

Historical sampling results for this site are presented in Table 16.

Updated aerial photography of the site is presented on Figure 8.

Table 7 - Summary of samples collected, NGA #150

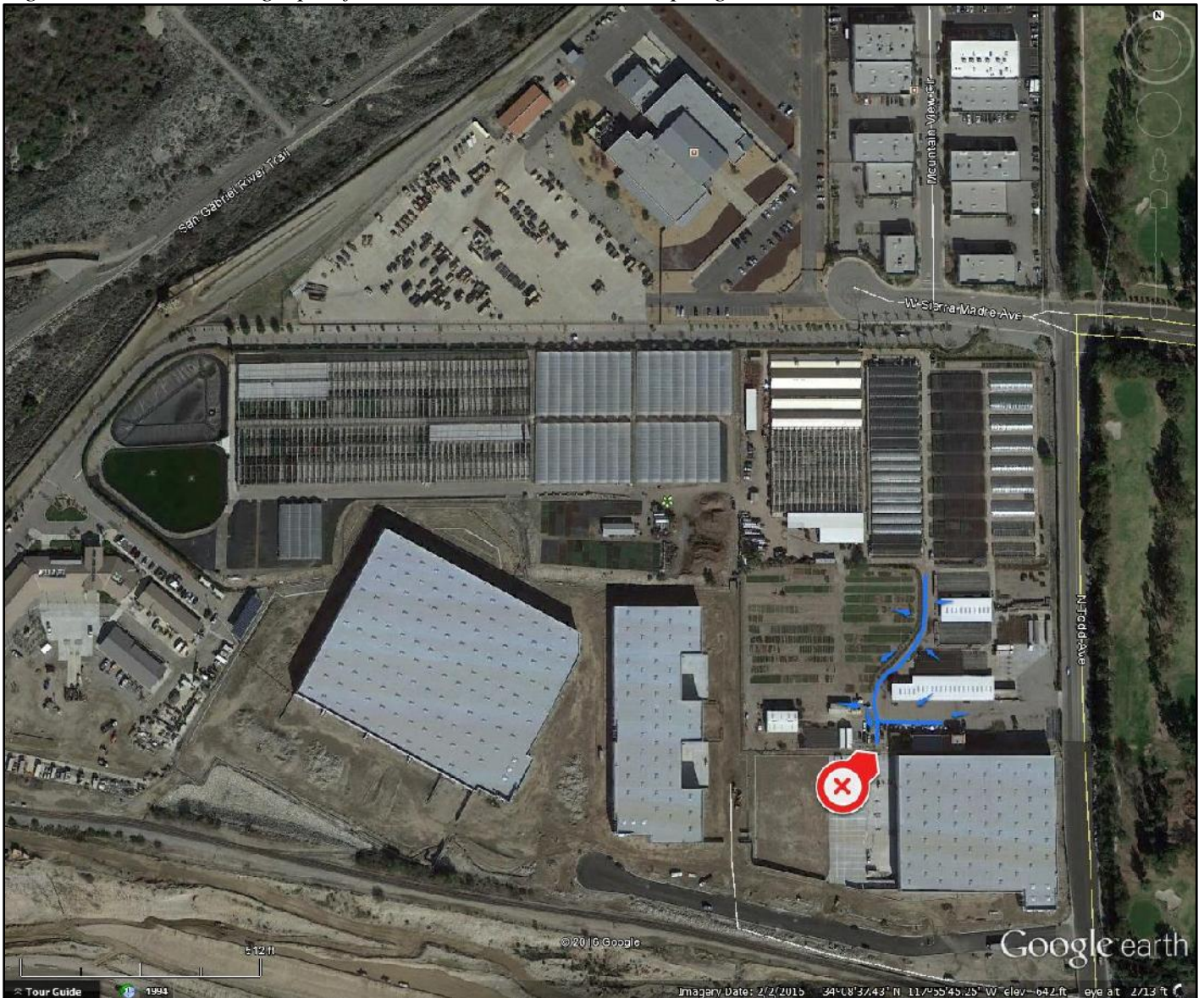
| Site | Sample # | Date | General Chemistry (mg/L) | | | | | | | | | | | | |
|-----------|------------------|----------|--------------------------|----------|------------|---------------|---------------|-----------------|--------------|-------------|------------|-------|-----------------------|------|-------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO3 | Ca | Cu |
| NGA #150 | NGA-#150-LAILG | 9/25/07 | 52.4 | 95.9 | 26.84 | 355.6 | 87 | 22.5 | 2279 | 23 | 24 | 57 | na | na | na |
| NGA #150 | NGA #150-LAILG-2 | 12/7/07 | 2.9 | 27.34 | 14.0243 | 80.89 | 56.59 | 9.43 | 780 | 8.89 | 9.445 | 40 | na | na | na |
| NGA # 150 | LAILG-NGA 150-3 | 11/26/08 | 32.2 | 65.92 | 31.579 | 114.76 | 258.65 | 49.896 | 2,446 | 37.69 | 48.048 | 45.5 | na | na | na |
| NGA # 150 | LAILG-NGA 150-4 | 12/15/08 | 15.75 | 47.27 | 26.0911 | 268.53 | 125.27 | 24.935 | 1,704 | 2.94 | 24.75 | 333.5 | na | na | na |
| NGA # 150 | LAILG-NGA 150-5 | 3/21/11 | 3.7 | 28 | 12 | 120 | 60 | 32 | 1,200 | 12.00 | 32 | 110 | 300 | 120 | 0.031 |
| NGA # 150 | LAILG-NGA-150-6 | 12/2/14 | 0.41 | 60 | 2.4** | 13 | 130 | 2.6 | 530 | 2.5** | 3.7 | 240 | 179 | 71.8 | 0.095 |

| Site | Sample # | Date | OC Pesticides (ng/L) | | | OP Pesticides (ng/L) | | Pyd Pesticides (ng/L) |
|-----------|------------------|----------|---------------------------|-------------|-----------------|----------------------|-----------|---------------------------------------|
| | | | Total DDT and Derivatives | Aldrin | Total Chlordane | Chlorpyrifos | Malathion | Total sum of all detected Pyrethroids |
| NGA #150 | NGA-#150-LAILG | 9/25/07 | nd | nd | nd | nd | nd | 41,733.0 |
| NGA #150 | NGA #150-LAILG-2 | 12/7/07 | nd | 35.2 | nd | nd | nd | 40,296.5 |
| NGA # 150 | LAILG-NGA 150-3 | 11/26/08 | nd | nd | nd | nd | nd | 42,355.2 |
| NGA # 150 | LAILG-NGA 150-4 | 12/15/08 | nd | nd | nd | 90.2 | nd | 41,952.4 |
| NGA # 150 | LAILG-NGA 150-5 | 3/21/11 | nd | nd | nd | 33 | nd | 528 |
| NGA # 150 | LAILG-NGA-150-6 | 12/2/14 | nd | nd | nd | nd | nd | 5,370 |

Results above CWIL Limits are presented in **BOLD**.

mg/L milligrams per liter
 ng/L nanograms per liter
 OC Organochlorinated Pesticide
 OP Organophosphorus Pesticide
 Pyd Pyrethroid Pesticide
 na Constituent not analyzed
 nd Constituent not detected

Figure 8 – Aerial Photograph of NGA #150 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

NGA SITE #189

Sampling Group: Group 2

Sampling Frequency - Fixed

Total/Irrigated Area: 1.5/1.25 Acres

Sample site GPS location: N 34° 06' 59.1" W 117° 47' 03.9"

Site Drainage - The western end of the site drains westward into a grass field that borders the edge of the property. The eastern half drains eastward towards Damien Avenue as sheet flow. Based on drainage properties, the eastern edge of the property along Damien Avenue was identified as the anticipated sampling location.

Sampling - Two samples collected to date. No samples have been collected since 2008, after BMP improvements were implemented. This site was not visited during this sampling year.

Historical sampling results for this site are presented in Table 17.

Aerial photography of the site is presented on Figure 9.

Table 8 - Summary of samples collected, NGA #189

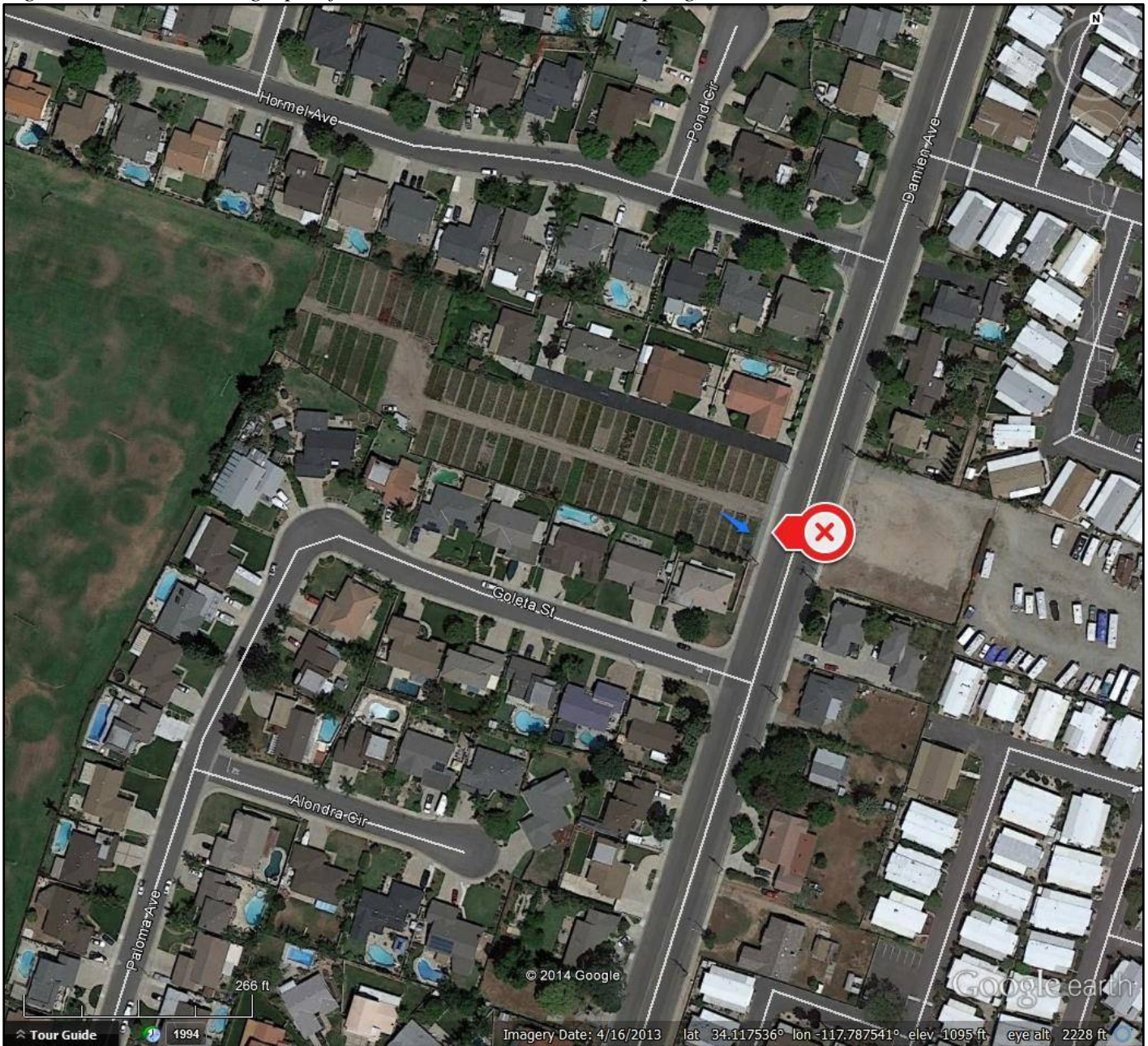
| Site | Sample # | Date | General Chemistry (mg/L) | | | | | | | | | |
|-----------|-----------------|----------|--------------------------|----------|------------|-------------|---------|-----------------|-----|-------------|------------|-------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS |
| NGA # 189 | LAILG-NGA 189-1 | 1/4/08 | 0.59 | 7.29 | 0.6851 | 1.83 | 26.43 | 1.33 | 192 | 1.8 | 2.475 | 20 |
| NGA # 189 | LAILG-NGA 189-2 | 12/15/08 | 0.54 | 31.28 | 0.6795 | 9.87 | 41.27 | 0.813 | 220 | 0.99 | 1.261 | 111.3 |

| Site | Sample # | Date | OC Pesticides (ng/L) | | OP Pesticides (ng/L) | Pyd Pesticides (ng/L) |
|-----------|-----------------|----------|---------------------------|-----------------|----------------------|---------------------------------------|
| | | | Total DDT and Derivatives | Total Chlordane | Malathion | Total sum of all detected Pyrethroids |
| NGA # 189 | LAILG-NGA 189-1 | 1/4/08 | 22.5 | 14.9 | 26.9 | 0 |
| NGA # 189 | LAILG-NGA 189-2 | 12/15/08 | nd | nd | nd | 6.1 |

Results above CWIL Limits are presented in **BOLD**.

mg/L milligrams per liter
 ng/L nanograms per liter
 OC Organochlorinated Pesticide
 OP Organophosphorus Pesticide
 Pyd Pyrethroid Pesticide
 na Constituent not analyzed
 nd Constituent not detected

Figure 9 – Aerial Photograph of NGA #189 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

6.1.3 GROUP 3

NGA SITE #31

Sampling Group: Group 3

Sampling Frequency - Fixed

Total/Irrigated Acres: 62.0/62.0 Acres

Sample site GPS location: N 33° 3' 0" W 118° 0' 14.4"

January 15, 2015, wet season, no sample collected



Site Drainage - The site drains southwest, through ditches that ultimately enter a catch basin. The site has implemented a number of BMPs, including re-directing runoff from the 605 Freeway away from growing operations at the site. All operations at the site discharge to the main catch basin. Based on site improvements, sampling would only take place if the catch basin overflows and releases water through additional BMPs to the storm drains on the northwest corner of the property.

Sampling - Four samples collected to date. This site was visited during the first wet season sampling event during this sampling year. Water was discharging from the freeway through the property, but no runoff was observed from the property catch basin.

Historical sampling results for this site are presented in Table 18.

Aerial photography of the site is presented on Figure 10.

Table 9 - Summary of samples collected, NGA #31

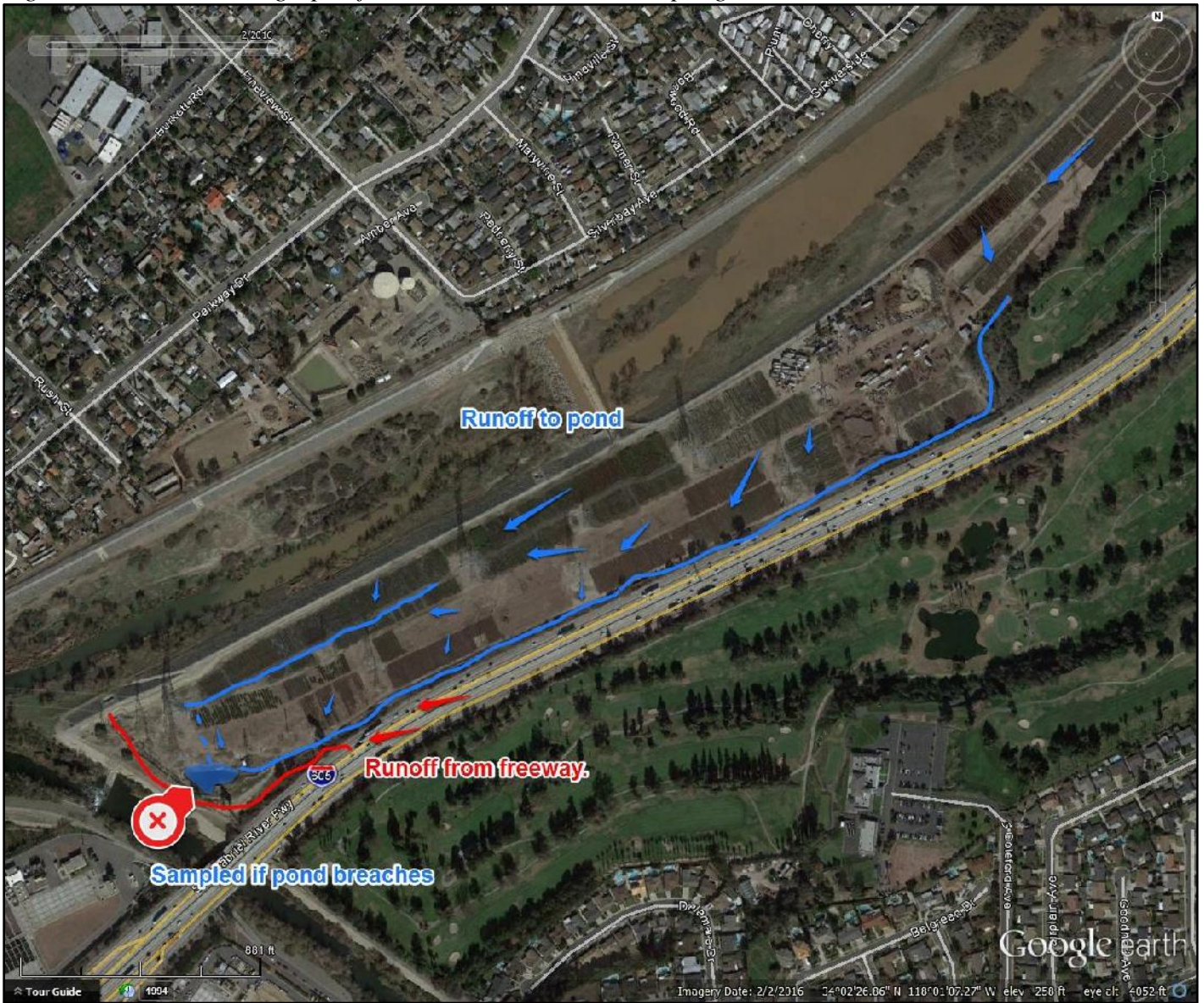
| Site | Sample # | Date | General Chemistry (mg/L) | | | | | | | | | | | | |
|----------|----------------|----------|--------------------------|----------|------------|--------------|---------|-----------------|-----|-------------|------------|------|-----------------------------------|----|-------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO ₃ | Ca | Cu |
| NGA # 31 | LAILG-NGA 31-1 | 9/23/08 | 0.13 | 82.13 | 1.562 | 17.3 | 134.93 | 1.472 | 602 | 2.34 | 1.813 | 162 | na | na | na |
| NGA # 31 | LAILG-NGA 31-2 | 11/26/08 | 0.76 | 6.12 | 0.474 | 3.6 | 14.84 | 0.497 | 104 | 1.63 | 1.94 | 353 | na | na | na |
| NGA # 31 | LAILG-NGA 31-3 | 12/15/08 | 4.32 | 36.98 | 3.0228 | 12.14 | 57.58 | 2.148 | 364 | 2.87 | 3.155 | 85.5 | na | na | na |
| NGA # 31 | LAILG-NGA 31-4 | 3/17/12 | 1.1 | 55 | 1.0 | 12 | 160 | 0.90 | 520 | 1.0 | 2.0 | 81 | 240 | 95 | 0.027 |

| Site | Sample # | Date | OC Pesticides (ng/L) | | OP Pesticides (ng/L) | | Pyd Pesticides (ng/L) |
|----------|----------------|----------|---------------------------|-----------------|----------------------|----------------|---------------------------------------|
| | | | Total DDT and Derivatives | Total Chlordane | Chlorpyrifos | Malathion | Total sum of all detected Pyrethroids |
| NGA # 31 | LAILG-NGA 31-1 | 9/23/08 | 13.5 | 15.2 | nd | nd | 78.6 |
| NGA # 31 | LAILG-NGA 31-2 | 11/26/08 | nd | 17.9 | nd | nd | 460.2 |
| NGA # 31 | LAILG-NGA 31-3 | 12/15/08 | nd | nd | 44.5 | 3,433.9 | 52.6 |
| NGA # 31 | LAILG-NGA 31-4 | 3/17/12 | nd | nd | nd | nd | 35.9 |

Results above CWIL Limits are presented in **BOLD**.

mg/L milligrams per liter
 ng/L nanograms per liter
 OC Organochlorinated Pesticide
 OP Organophosphorus Pesticide
 Pyd Pyrethroid Pesticide
 na Constituent not analyzed
 nd Constituent not detected

Figure 10 – Aerial Photograph of NGA #31 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

NGA SITE #64

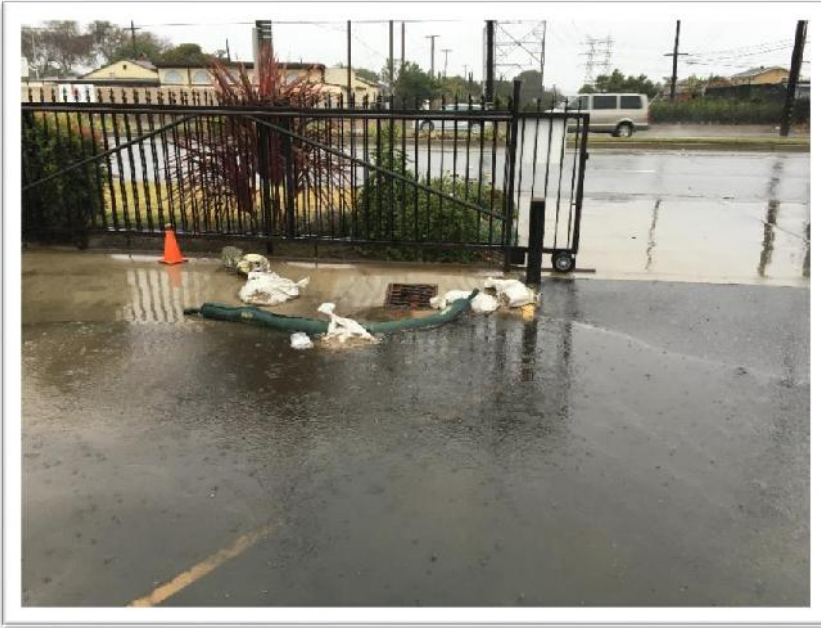
Sampling Group: Group 3

Sampling Frequency - Fixed

Total/Irrigated Acres: 5.5/2.5 Acres

Sample site GPS location: N 33° 52' 05.9" W 118° 08' 32.3"

January 5, 2016, wet season, sample collected



Site Drainage - The site drains to the west, into two drains on the western border of the property that feed directly to Lakewood Boulevard. Based on drainage, one of the western drains was chosen as the sampling location.

Sampling - Four samples collected to date. This site was visited during the first wet season sampling event during this sampling year; a sample was collected on January 5, 2016.

Historical sampling results for this site are presented in Table 19.

Aerial photography of the site is presented on Figure 11.

Table 10 - Summary of samples collected, NGA #64

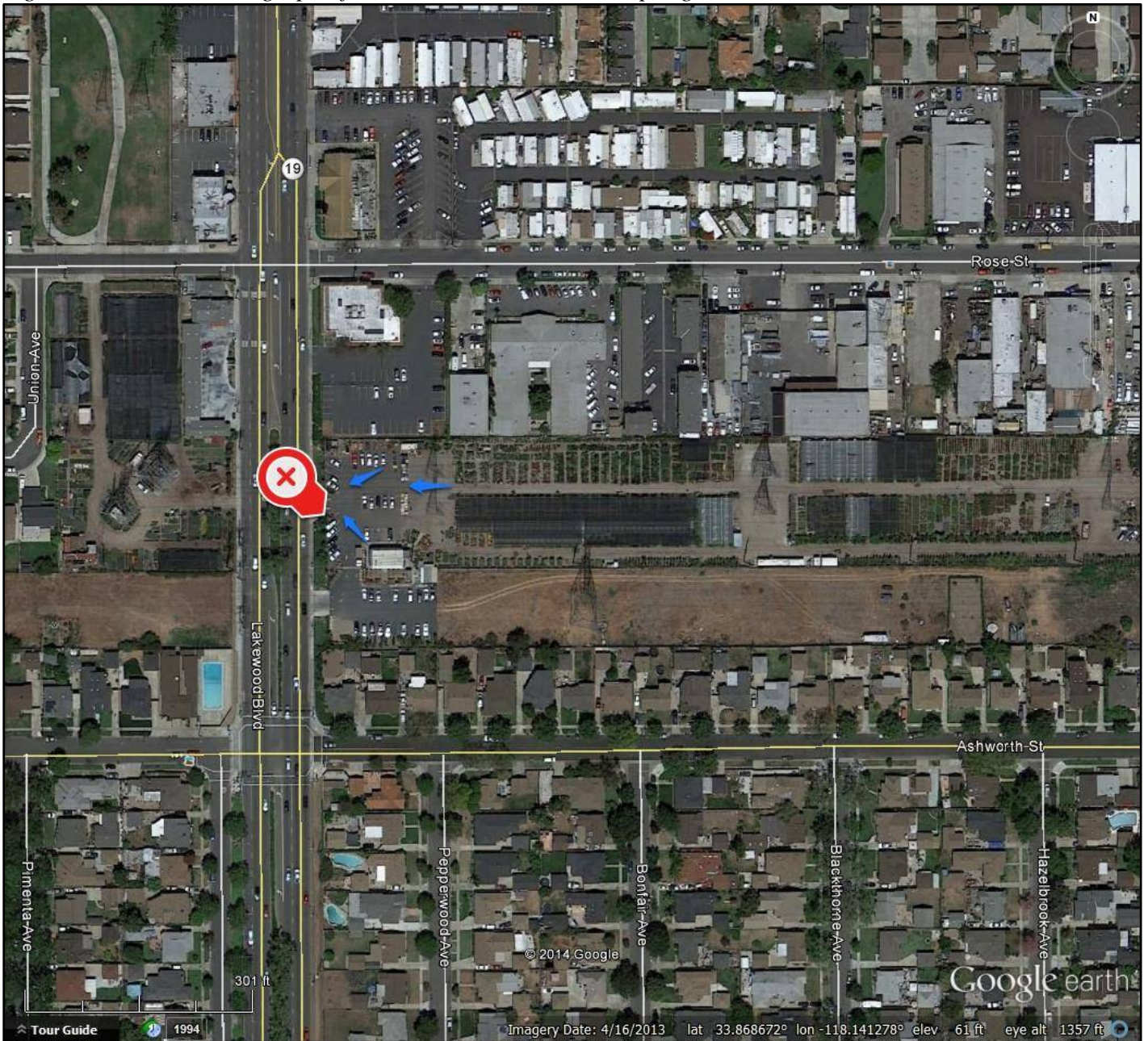
| Site | Sample # | Date | General Chemistry (mg/L) | | | | | | | | | | | | |
|---------|----------------|----------|--------------------------|----------|------------|---------|---------|-----------------|-----|-------------|------------|-----|-----------------------|------|-------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO3 | Ca | Cu |
| NGA #64 | LAILG-NGA-64-1 | 1/23/08 | 0.2 | 3.82 | 0.2818 | 3.83 | 101.1 | 0.3 | nd | 0.46 | 0.393 | 76 | na | na | na |
| NGA #64 | LAILG-NGA-64-2 | 12/15/08 | 1.15 | 12.38 | 0.4307 | 5.39 | 35.34 | 0.49 | 232 | 0.71 | 0.868 | 112 | na | na | na |
| NGA #64 | LAILG-NGA-64-3 | 3/17/12 | 0.79 | 5.8 | 0.28 | 0.70 | 8.4 | 0.32 | 57 | 0.28 | 1.5 | 500 | 51 | 21 | 0.047 |
| NGA #64 | LAILG-NGA-64-4 | 1/5/16 | 0.63 | 3.9 | 0.15 | 0.70 | 7.2 | 0.17 | 45 | 0.16 | 0.5 | 190 | 28.3 | 11.3 | 0.027 |

| Site | Sample # | Date | OC Pesticides (ng/L) | | OP Pesticides (ng/L) | Pyd Pesticides (ng/L) |
|---------|----------------|----------|---------------------------|------------|---------------------------|---------------------------------------|
| | | | Total DDT and Derivatives | Toxaphene | | |
| NGA #64 | LAILG-NGA-64-1 | 1/23/08 | 0 | 0 | No OP Pesticides Detected | Total sum of all detected Pyrethroids |
| NGA #64 | LAILG-NGA-64-2 | 12/15/08 | 43.3 | 666 | | 47.4 |
| NGA #64 | LAILG-NGA-64-3 | 3/17/12 | 28 | nd | | 110 |
| NGA #64 | LAILG-NGA-64-4 | 1/5/16 | nd | nd | | 22 |
| | | | | | | 7.3 |

Results above CWIL Limits are presented in **BOLD**.

mg/L milligrams per liter
 ng/L nanograms per liter
 OC Organochlorinated Pesticide
 OP Organophosphorus Pesticide
 Pyd Pyrethroid Pesticide
 na Constituent not analyzed
 nd Constituent not detected

Figure 11 – Aerial Photograph of NGA #64 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

NGA SITE #81

Sampling Group: Group 3

Sampling Frequency - Fixed

Total/Irrigated Acres: 4.7/3.0 Acres

Sample site GPS location: N 33° 52' 46.9" W 118° 09' 20.7"

January 5, 2016, wet season, no sample collected



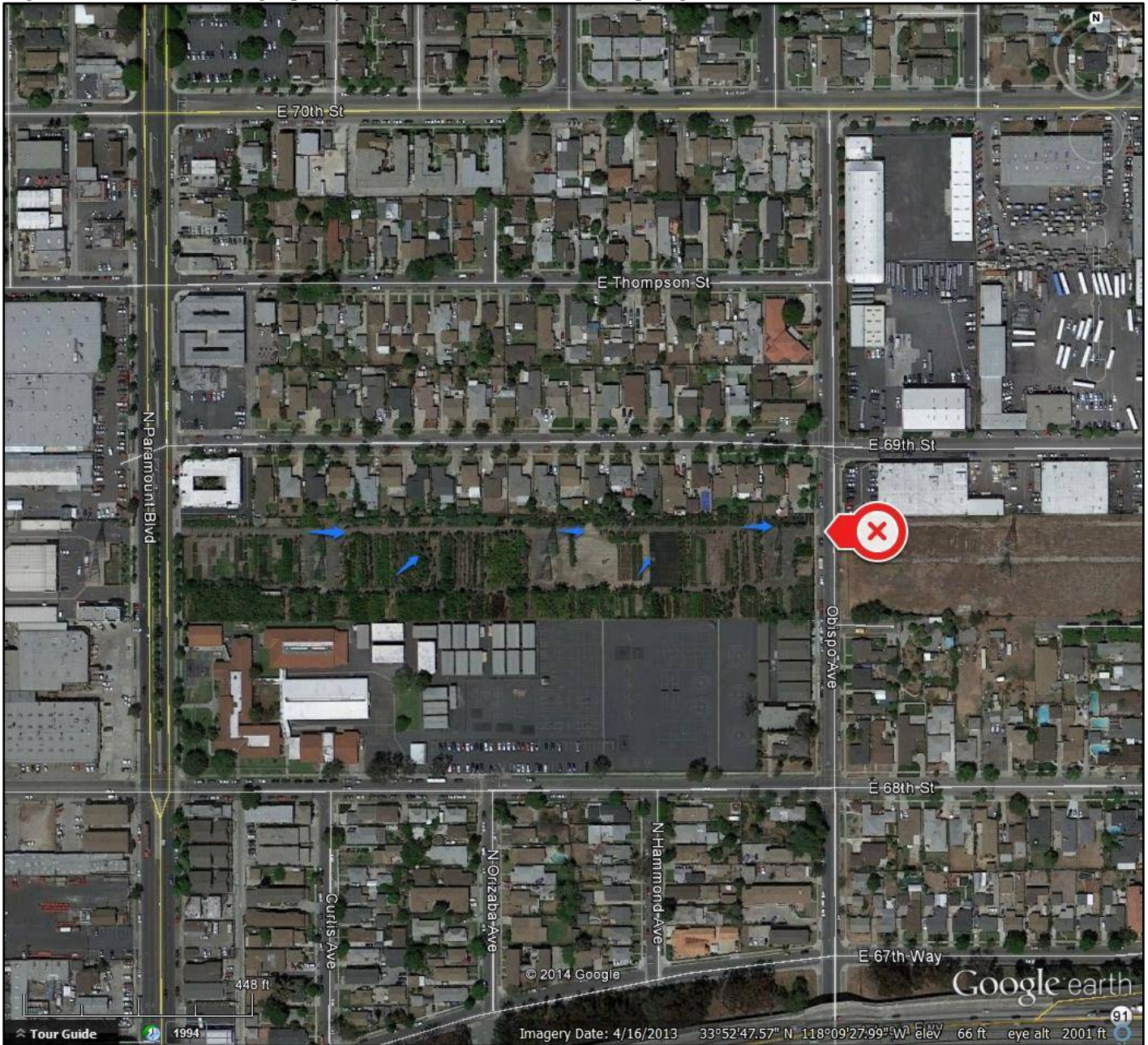
Site Drainage – The site drains to the east as sheet flow towards Obispo Avenue. The site is relatively flat with a small surface gradient.

Sampling - No samples collected to date. This site was visited during the first wet season sampling event during this sampling year; no runoff was observed.

There are no historical sampling results for this site.

Aerial photography of the site is presented on Figure 12

Figure 12– Aerial Photograph of NGA #81 and General Sampling Location



General Sampling Location

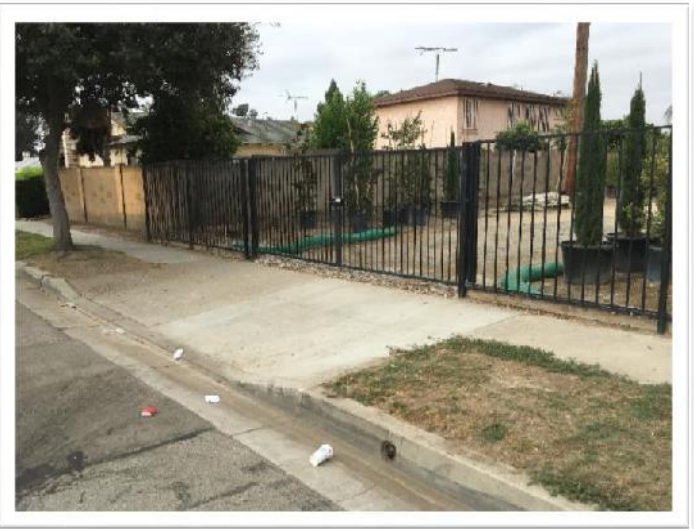
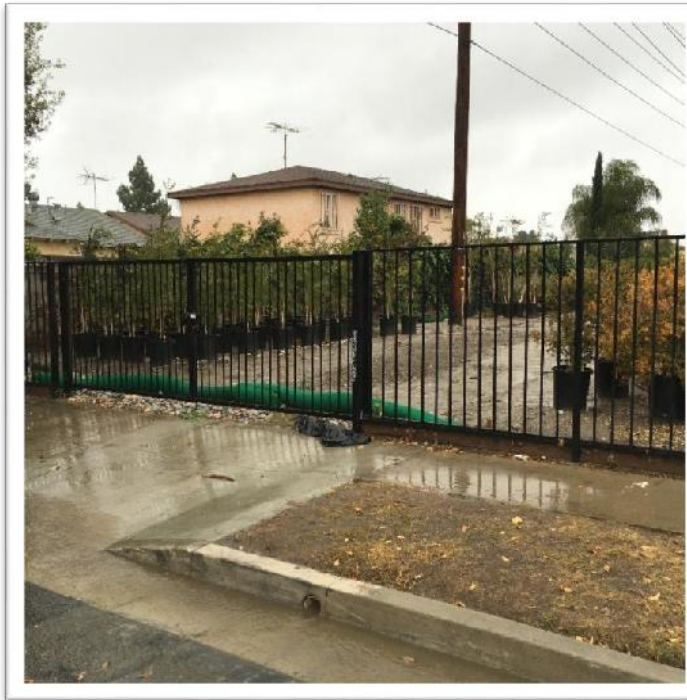


General Surface Flow to Sampling Location

NGA SITE #168

Sampling Group: Group 3
Sampling Frequency - Fixed
Total/Irrigated Acres: 6.0/4.75 Acres
Sample site GPS location: N 33° 51' 3.2" W 118° 4' 55.2"

January 5, 2016, wet season, sample collected September 2, 2016, dry season, no sample collected



Site Drainage -The site drains to the east of the property through drainage ditches and runs into Jacob Avenue. Based on drainage properties, the eastern edge of the property by the drainage ditches was chosen as the sampling location.

Sampling - Eight samples collected to date. This site was visited during the first wet season sampling event and first dry season sampling event during this sampling year; a sample was collected on January 5, 2016.

Historical sampling results for this site are presented in Table 20.

Aerial photography of the site is presented on Figure 13.

Table 11 - Summary of samples collected, NGA #168

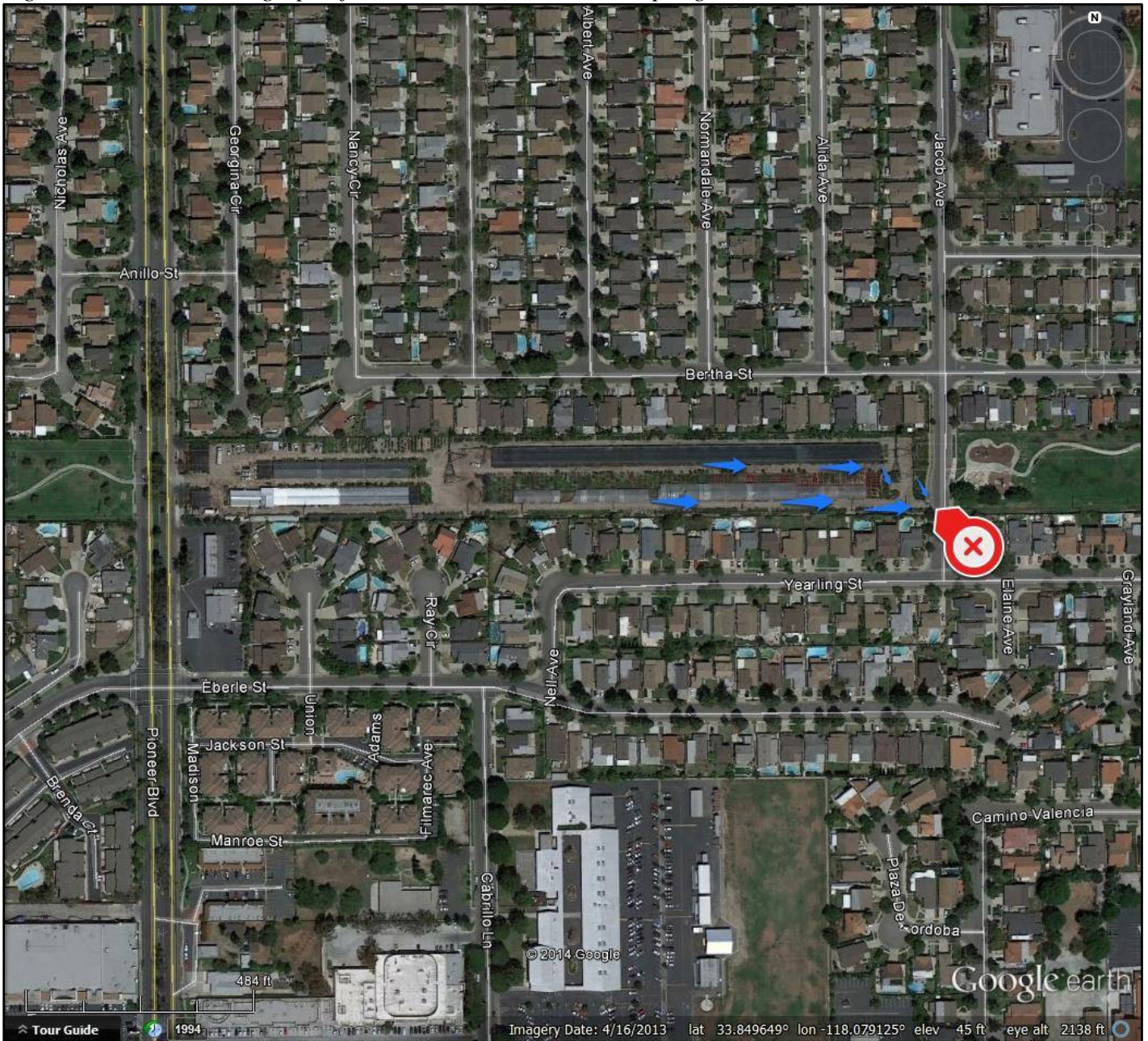
| Site | Sample # | Date | General Chemistry (mg/L) | | | | | | | | | | | | |
|----------|------------------|----------|--------------------------|----------|------------|--------------|------------|-----------------|--------------|-------------|------------|--------|-----------------------|------|-------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO3 | Ca | Cu |
| NGA #168 | NGA-#168-LAILG-1 | 8/13/07 | 0.4 | 81.85 | 1.977 | 4.93 | 131.16 | 2.28 | 664 | 2.13 | 3.243 | 122 | na | na | na |
| NGA #168 | ILGNGA-#168-2 | 9/28/07 | 2.2 | 172.52 | 1.582 | 8.91 | 340.14 | 2.15 | 1,297 | 3.51 | 5.379 | 504 | na | na | na |
| NGA #168 | NGA-#168-LAILG-3 | 11/30/07 | 0.48 | 101.43 | 2.1635 | 30.81 | 245.04 | 2.67 | 951 | 3.13 | 3.548 | nd | na | na | na |
| NGA #168 | LAILG-NGA-168-4 | 1/25/08 | 0.38 | 65.9 | 3.053 | 14.58 | 117.44 | 3.07 | 592 | 5.45 | 2.363 | 1126.7 | na | na | na |
| NGA #168 | LAILG-NGA-168-5 | 12/15/08 | 0.25 | 53.4 | 1.4434 | 15.33 | 130.75 | 1.568 | 492 | 2.24 | 2.386 | 236 | na | na | na |
| NGA #168 | LAILG-NGA-168-6 | 3/17/12 | 0.89 | 82 | 1.1 | 35 | 470 | 1.7 | 1,100 | 1.1 | 8.4 | 1200 | 500 | 200 | 0.110 |
| NGA #168 | LAILG-NGA-168-7 | 5/15/15 | 0.18 | 57 | 0.36 | 11 | 120 | 0.44 | 400 | 0.36 | 0.74 | 91 | 134 | 53.7 | 0.036 |
| NGA #168 | LAILG-NGA-168-8 | 1/5/16 | 0.36 | 41 | 0.32 | 15 | 160 | 0.45 | 410 | 0.32 | 0.80 | 140 | 162 | 64.9 | 0.036 |

| Site | Sample # | Date | OC Pesticides (ng/L) | | OP Pesticides (ng/L) | Pyd Pesticides (ng/L) |
|----------|------------------|----------|---------------------------|-----------------|----------------------|---------------------------------------|
| | | | Total DDT and Derivatives | Total Chlordane | Malathion | Total sum of all detected Pyrethroids |
| NGA #168 | NGA-#168-LAILG-1 | 8/13/07 | nd | nd | nd | 1,379.1 |
| NGA #168 | ILGNGA-#168-2 | 9/28/07 | 118 | nd | nd | 964.0 |
| NGA #168 | NGA-#168-LAILG-3 | 11/30/07 | 2.7 | 2.8 | 8.9 | 466.1 |
| NGA #168 | LAILG-NGA-168-4 | 1/25/08 | 19.2 | nd | nd | 187.9 |
| NGA #168 | LAILG-NGA-168-5 | 12/15/08 | 11.8 | nd | 38.9 | 1,375.9 |
| NGA #168 | LAILG-NGA-168-6 | 3/17/12 | nd | nd | nd | 72 |
| NGA #168 | LAILG-NGA-168-7 | 5/15/15 | nd | nd | nd | 484.3 |
| NGA #168 | LAILG-NGA-168-8 | 1/5/16 | nd | nd | nd | 379 |

Results above CWIL Limits are presented in **BOLD**.

- mg/L milligrams per liter
- ng/L nanograms per liter
- OC Organochlorinated Pesticide
- OP Organophosphorus Pesticide
- Pyd Pyrethroid Pesticide
- na Constituent not analyzed
- nd Constituent not detected

Figure 13 – Aerial Photograph of NGA #168 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

6.1.4 GROUP 4

NGA SITE #4

Sampling Group: Group 4

Sampling Frequency - Fixed

Total / Irrigated Acres: 19.2 / 11.5

Sample site GPS location: N 33° 52' 55.5" W 118° 16' 06.1"

September 2, 2016, dry season, no sample collected



Site Drainage - The northern half of the site drains northward into two storm drains located on the property boundary along Gardena Boulevard. The southern half of the site drains to the south, where the majority appears to percolate into the soil. Another storm drain is located on the southwest corner of the property. Based on drainage properties, one of the northern storm drains on the edge of the site was chosen as the sampling location.

Sampling – Six samples collected to date. This site was visited during the first dry season sampling event during this sampling year; no runoff was observed.

Historical sampling results for this site are presented in Table 21.

Aerial photography of the site is presented on Figure 14.

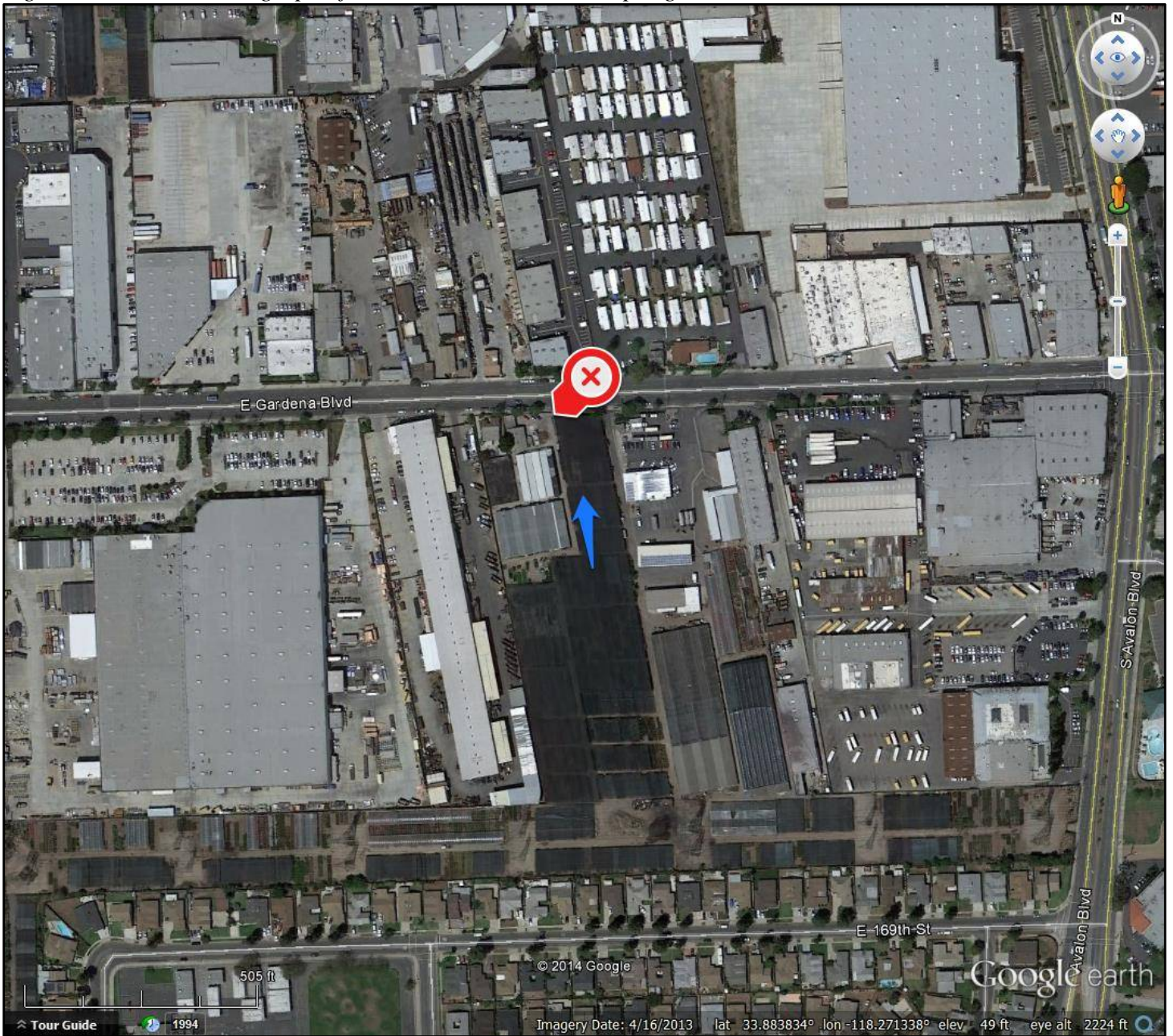
Table 12 - Summary of samples collected, NGA #4

| Site | Sample # | Date | General Chemistry (mg/L) | | | | | | | | | | | | |
|--------|----------------|----------|--------------------------|----------|------------|---------------|---------|-----------------|--------------|-------------|------------|-----|-----------------------------------|----|-------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO ₃ | Ca | Cu |
| NGA #4 | NGA #4-LAILG-1 | 12/7/07 | 0.48 | 20.64 | 1.1355 | 4.03 | 20.39 | 0.8 | 186 | 0.77 | 0.829 | 58 | na | na | na |
| NGA #4 | LAILG-NGA4-2 | 1/23/08 | 0.24 | 1.45 | 0.1891 | 0.6 | 3.87 | 0.15 | 145 | 0.26 | 1.848 | 27 | na | na | na |
| NGA #4 | LAILG-NGA 4-3 | 8/13/08 | 0.68 | 350.11 | 11.5262 | 200.18 | 219.52 | 69.7 | 2,238 | 13.05 | 31.713 | 371 | na | na | na |
| NGA #4 | LAILG-NGA 4-4 | 12/15/08 | 0.52 | 8.67 | 1.0382 | 2.7 | 15.23 | 0.158 | 238 | 2.33 | 2.231 | 295 | na | na | na |
| NGA #4 | LAILG-NGA 4-5 | 3/21/11 | 0.69 | 10 | 0.31 | 1.5 | 8.3 | 0.52 | 110 | 0.310 | 2.6 | 810 | 62 | 25 | 0.230 |
| NGA #4 | LAILG-NGA 4-6 | 3/25/12 | na | 69 | 1.1 | 17 | 52 | 1.0 | 320 | 1.1 | 1.4 | 34 | 100 | 42 | 0.051 |

| Site | Sample # | Date | OC Pesticides (ng/L) | | | OP Pesticides (ng/L) | | | | Pyd Pesticides (ng/L) |
|--------|----------------|----------|----------------------|---------------------------|-----------------|----------------------|----------------|------------|------------------|---------------------------------------|
| | | | Dicofol | Total DDT and Derivatives | Total Chlordane | Chlorpyrifos | Diazinon | Dichlorvos | Malathion | Total sum of all detected Pyrethroids |
| NGA #4 | NGA #4-LAILG-1 | 12/7/07 | nd | nd | nd | 1,122.6 | 175.2 | 11.3 | nd | 2,107.5 |
| NGA #4 | LAILG-NGA4-2 | 1/23/08 | nd | nd | nd | 153.8 | 2,212.1 | nd | 15,453.2 | 1,389.4 |
| NGA #4 | LAILG-NGA 4-3 | 8/13/08 | 485.7 | nd | 38.8 | nd | 6,058.9 | nd | 1,148,630 | 26,753.7 |
| NGA #4 | LAILG-NGA 4-4 | 12/15/08 | nd | nd | 99.5 | 590.9 | 859 | nd | 102,357.2 | 96,588.0 |
| NGA #4 | LAILG-NGA 4-5 | 3/21/11 | na | 38 | 39.6 | 11,000 | 1,000 | nd | 7,300 | 1,625.3 |
| NGA #4 | LAILG-NGA 4-6 | 3/25/12 | nd | nd | nd | 44,000 | nd | nd | 2,100 | 109.7 |

| | |
|--|-----------------------------|
| Results above CWIL Limits are presented in BOLD . | |
| mg/L | milligrams per liter |
| ng/L | nanograms per liter |
| OC | Organochlorinated Pesticide |
| OP | Organophosphorus Pesticide |
| Pyd | Pyrethroid Pesticide |
| na | Constituent not analyzed |
| nd | Constituent not detected |

Figure 14 – Aerial Photograph of NGA #4 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

NGA SITE #53

Sampling Group: Group 4
Sampling Frequency - Fixed
Total/Irrigated Acres: 3.5/1.7 Acres
Sample site GPS location: N 33° 52' 51.1" W 118° 12' 56.3"

Site Drainage - The site drains into a small ditch that runs eastward into Santa Fe Avenue. Based on site topography, the eastern edge of the property by the drainage ditch was identified as the anticipated sampling location.

Sampling – Two samples collected to date. No samples have been collected since 2008, after BMP improvements were implemented. This site was not visited during this sampling year.

Historical sampling results for this site are presented in Table 22.

Aerial photography of the site is presented on Figure 15.

Table 13 - Summary of samples collected, NGA #53

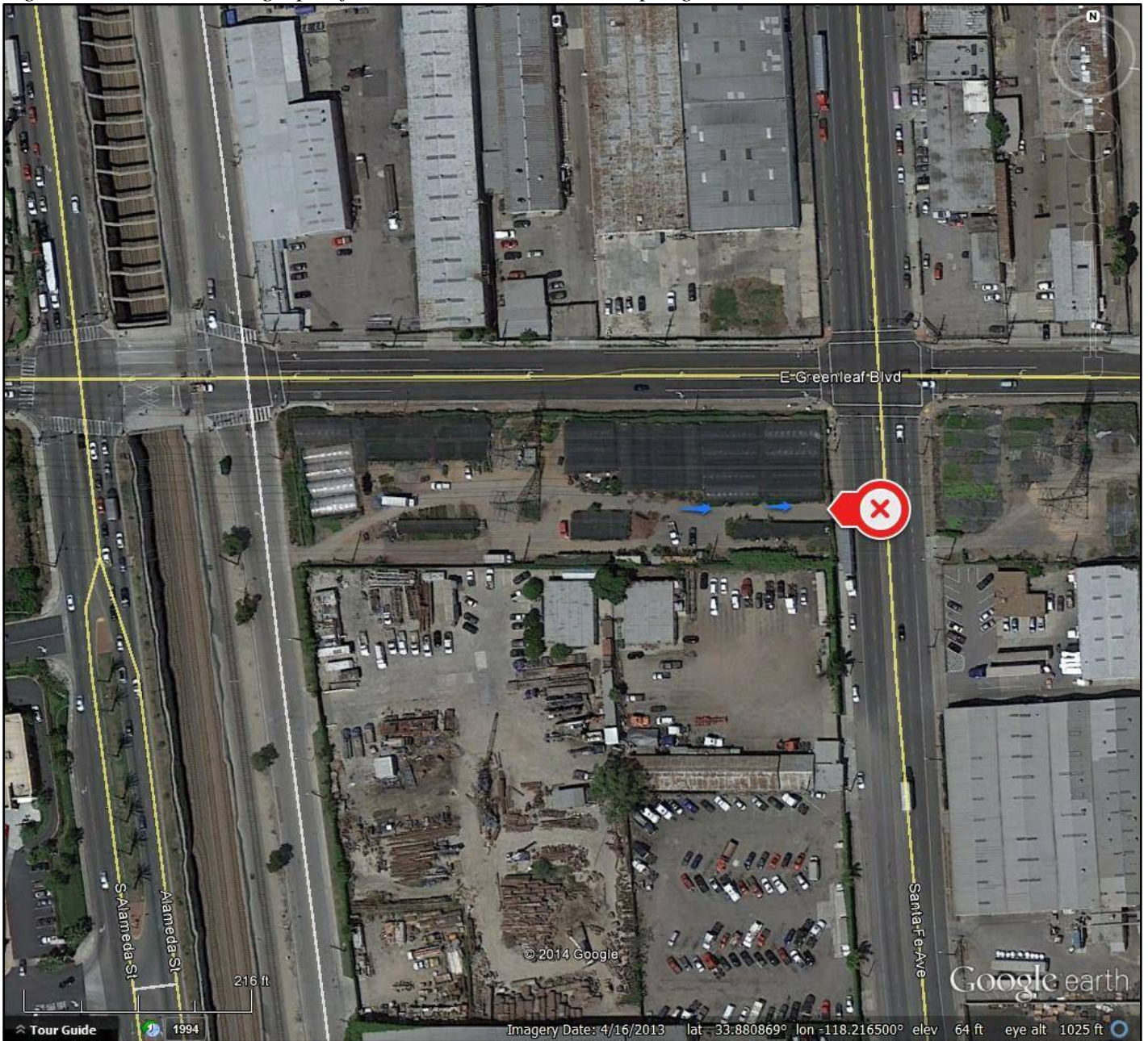
| Site | Sample # | Date | General Chemistry (mg/L) | | | | | | | | | |
|---------|----------------|----------|--------------------------|----------|------------|---------|---------|-----------------|-----|-------------|------------|-----|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS |
| NGA #53 | LAILG-NGA#53-1 | 12/18/07 | 0.7 | 4.72 | 0.2973 | 0.49 | 12.51 | 0.57 | 132 | 0.75 | 1.188 | 124 |
| NGA #53 | LAILG-NGA#53-2 | 1/23/08 | 0.31 | 2.19 | 0.6425 | 0.76 | 14.92 | 0.82 | nd | 0.68 | 1.993 | 516 |

| Site | Sample # | Date | OC Pesticides (ng/L) | | OP Pesticides (ng/L) | Pyd Pesticides (ng/L) |
|---------|----------------|----------|---------------------------------|------------------------|---------------------------|---------------------------------------|
| | | | No Detected DDT and Derivatives | No Detected Chlordanes | No OP Pesticides Detected | Total sum of all detected Pyrethroids |
| NGA #53 | LAILG-NGA#53-1 | 12/18/07 | | | | 11.5 |
| NGA #53 | LAILG-NGA#53-2 | 1/23/08 | | | | 0 |

Results above CWIL Limits are presented in **BOLD**.

mg/L milligrams per liter
 ng/L nanograms per liter
 OC Organochlorinated Pesticide
 OP Organophosphorus Pesticide
 Pyd Pyrethroid Pesticide
 na Constituent not analyzed
 nd Constituent not detected

Figure 15 – Aerial Photograph of NGA #53 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

NGA SITE #176

Sampling Group: Group 4
Sampling Frequency - Fixed
Total/Irrigated Acres: 12.0/7.5 Acres
Sample site GPS location: N 33° 51' 24.4" W 118° 22' 51.6"

September 2, 2016, dry season, no sample collected



Site Drainage - The site drains to the center, and they currently have a catch basin in the center to catch site runoff. During heavy rains, runoff from the site is reported to occur, and appears that it would run off to the southeast corner of the site.

Sampling – Two samples collected to date. This site was visited during the first dry season sampling event during this sampling year; no runoff was observed.

Historical sampling results for this site are presented in Table 23.

Aerial photography of the site is presented on Figure 16.

Table 14 - Summary of samples collected, NGA #176

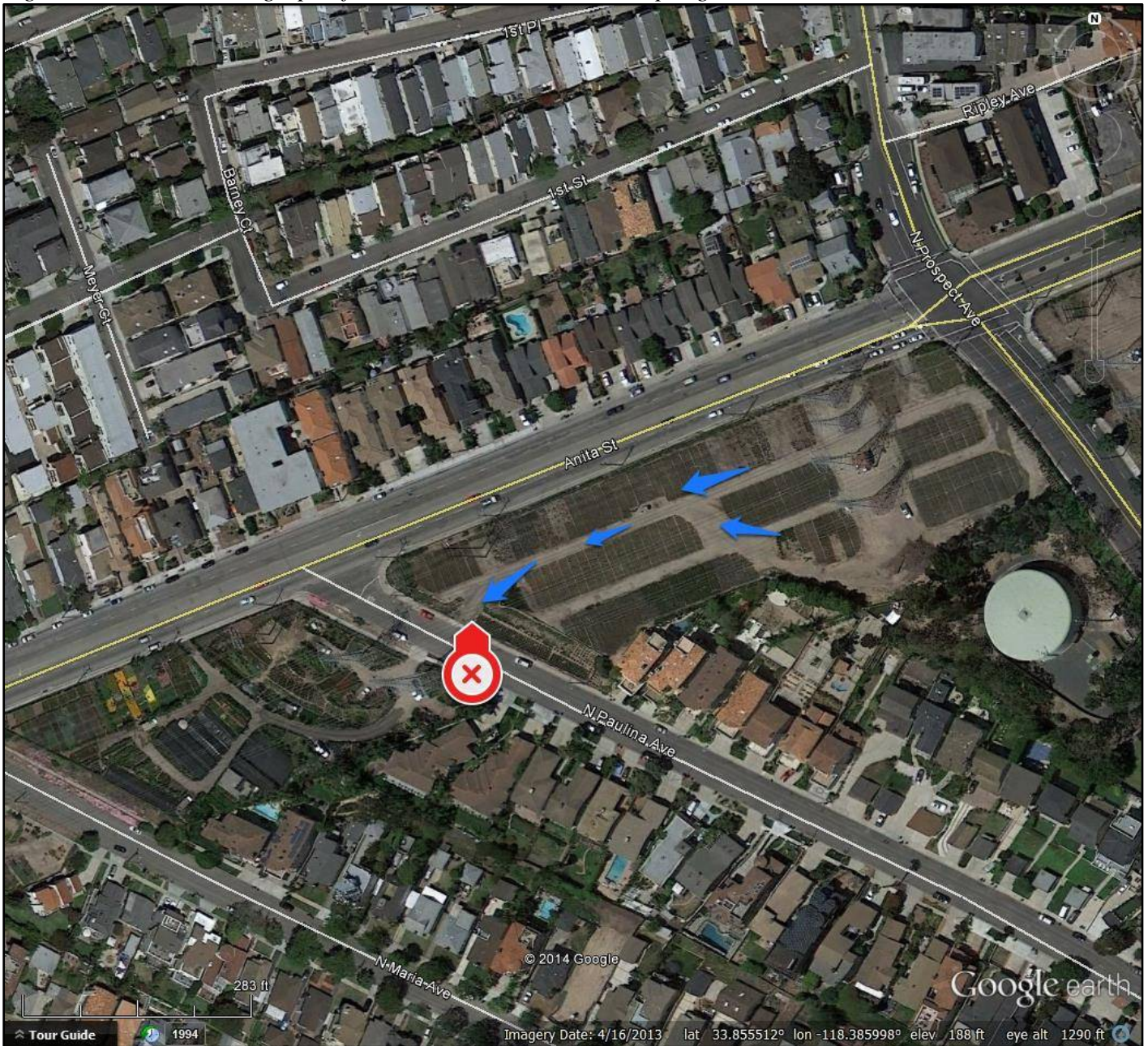
| Site | Sample # | Date | General Chemistry (mg/L) | | | | | | | | | | | | |
|----------|------------------|----------|--------------------------|----------|------------|---------|---------------|-----------------|------------|-------------|------------|-------|-----------------------|----|-------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO3 | Ca | Cu |
| NGA #176 | NGA-#176-LAILG-1 | 12/18/07 | 5.5 | 56.82 | 0.7145 | 3.85 | 293.12 | 0.54 | 680 | 12.21 | 3.447 | 6,168 | na | na | na |
| NGA #176 | NGA-#176-LAILG-2 | 3/25/12 | 0.30 | 29 | 0.99 | 8.7 | 43 | 0.99 | 220 | 0.99 | 2.2 | 550 | 80 | 32 | 0.066 |

| Site | Sample # | Date | OC Pesticides (ng/L) | OP Pesticides (ng/L) | Pyd Pesticides (ng/L) |
|----------|------------------|----------|---------------------------------|------------------------------------|---------------------------------------|
| | | | No Detected DDT and Derivatives | No Detected OP Pesticides Detected | Total sum of all detected Pyrethroids |
| NGA #176 | NGA-#176-LAILG-1 | 12/18/07 | | | 873.9 |
| NGA #176 | NGA-#176-LAILG-2 | 3/25/12 | | | 305 |

Results above CWIL Limits are presented in **BOLD**.

- mg/L milligrams per liter
- ng/L nanograms per liter
- OC Organochlorinated Pesticide
- OP Organophosphorus Pesticide
- Pyd Pyrethroid Pesticide
- na Constituent not analyzed
- nd Constituent not detected

Figure 16 – Aerial Photograph of NGA #176 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

NGA SITE #210

Sampling Group: Group 4

Sampling Frequency - Fixed

Total/Irrigated Area: 2.0/1.4 Acres

Approximate sample site GPS location: N 34° 01' 11.59" W 118° 49' 10.89"

Site Drainage - The vineyard is located on the northwestern section of the site. A series of concrete channels collect surface water and direct it towards the southern gate. Based on drainage properties, the area immediately outside the southern gate was chosen as the sampling location.

Sampling – Two samples collected to date. This site was not visited during this sampling year.

Historical sampling results for this site are presented in Table 24.

Aerial photography of the site is presented on Figure 17.

Table 15 - Summary of samples collected, NGA #210

| Site | Sample # | Date | General Chemistry (mg/L) | | | | | | | | | | | | |
|-----------|-----------------|----------|--------------------------|----------|------------|---------|---------------|-----------------|------------|-------------|------------|-----|-----------------------|-----|--------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO3 | Ca | Cu |
| NGA # 210 | LAILG-NGA 210-1 | 11/26/08 | 0.11 | 155.92 | 1.892 | 0.92 | 336.78 | 2.185 | 884 | 3.23 | 3.722 | 542 | na | na | na |
| NGA # 210 | LAILG-NGA 210-2 | 3/25/12 | 0.20 | 110 | 1.4 | 0.57 | 250 | 1.3 | 700 | 1.4 | 2.8 | 86 | 270 | 110 | 0.0060 |

| Site | Sample # | Date | OC Pesticides (ng/L) | OP Pesticides (ng/L) | Pyd Pesticides (ng/L) |
|-----------|-----------------|----------|---------------------------|----------------------|---------------------------------------|
| | | | No OP Pesticides Detected | Malathion | Total sum of all detected Pyrethroids |
| NGA # 210 | LAILG-NGA 210-1 | 11/26/08 | No OP Pesticides Detected | 56.4 | 279.8 |
| NGA # 210 | LAILG-NGA 210-2 | 3/25/12 | | 41 | 82.7 |

Results above CWIL Limits are presented in **BOLD**.

- mg/L milligrams per liter
- ng/L nanograms per liter
- OC Organochlorinated Pesticide
- OP Organophosphorus Pesticide
- Pyd Pyrethroid Pesticide
- na Constituent not analyzed
- nd Constituent not detected

Figure 17 – Aerial Photograph of NGA #210 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

6.2 VISITED REVOLVING SAMPLING SITES

NGA SITE # 158 (Sakaida)

Sampling Group: Group 1

Sampling Frequency - Rotating

Total / Irrigated Acres: 7.00 / 6.89

Sample site GPS location: N 34° 06' 49.0" W 118° 04' 55.9"

September 20, 2016, dry season, no sample collected



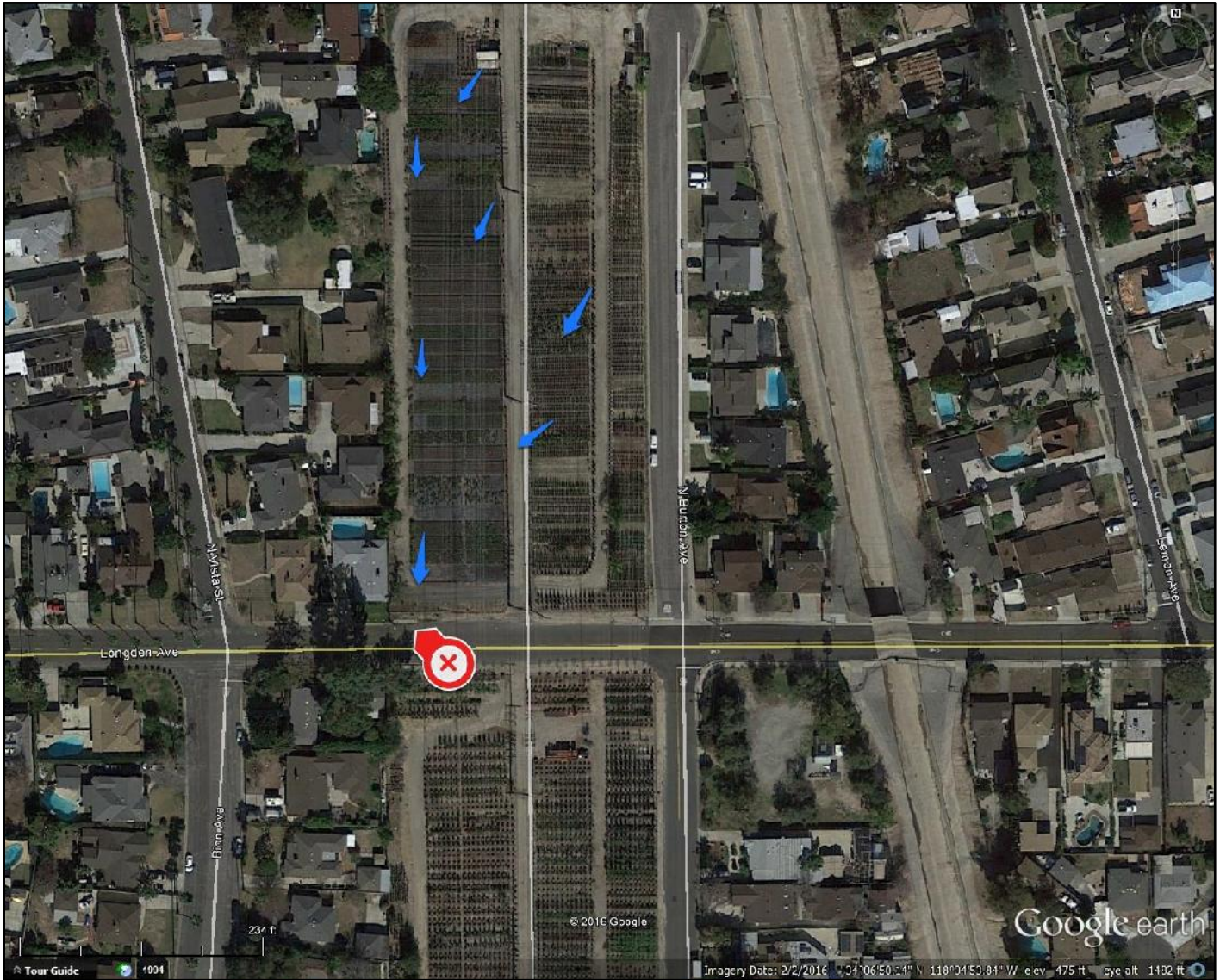
Site Drainage – The topography is relatively flat, and drains as surface flow. Based on drainage properties and site access, the southwestern corner of property to the north of Longden Avenue was chosen as the sampling location.

Sampling – One visit to date with no samples collected. This site was visited during the second dry season sampling event during this sampling year; no runoff was observed.

There are no historical sampling results for this site.

Aerial photography of the site is presented on Figure 18.

Figure 18 – Aerial Photograph of NGA #158 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

NGA SITE # 202 (El Nativo)

Sampling Group: Group 2

Sampling Frequency - Rotating

Total / Irrigated Acres: 9.00 / 7.00

Sample site GPS location: N 34° 06' 37.6" W 117° 56' 28.0"

September 2, 2016, dry season, no sample collected



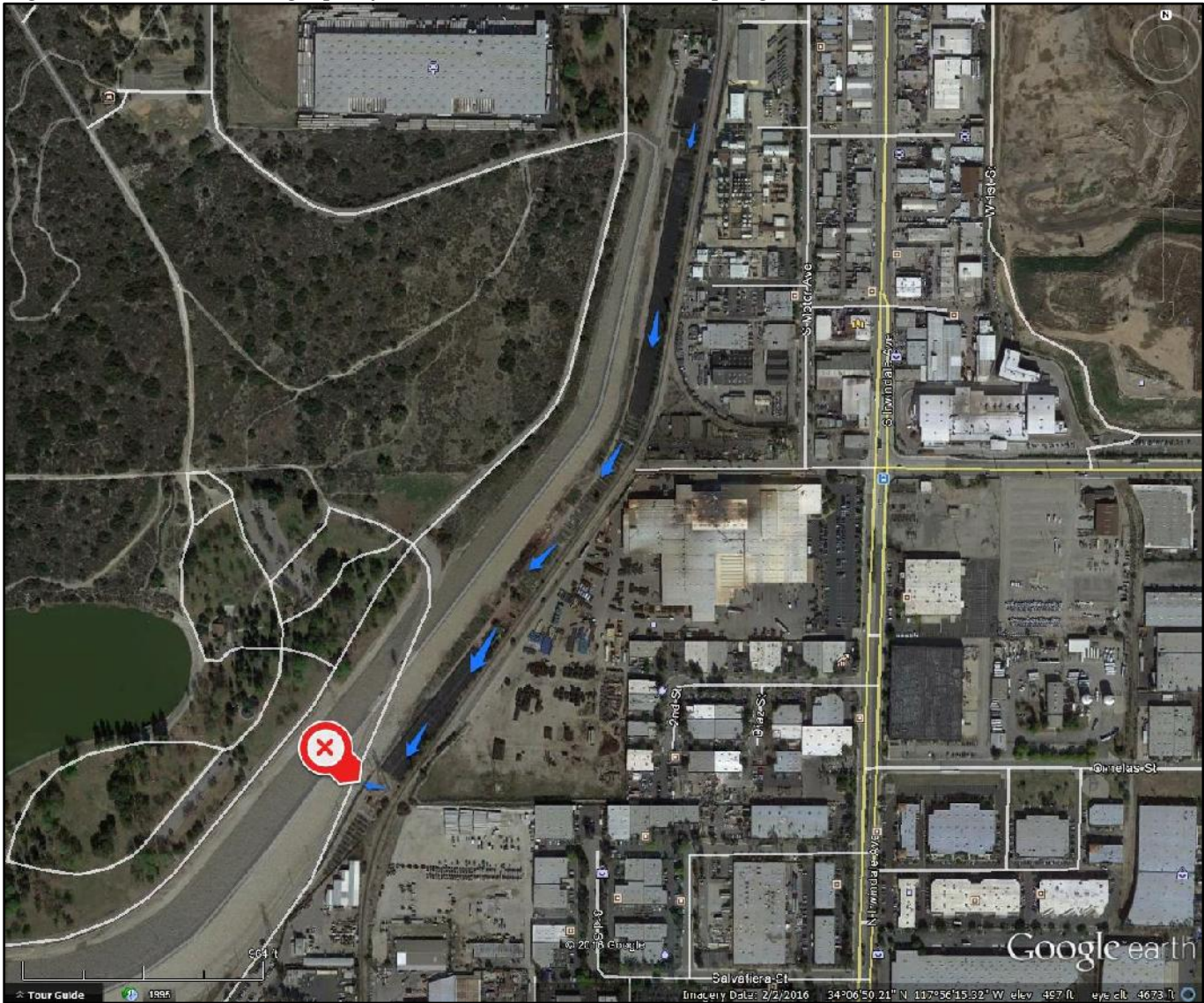
Site Drainage – The site lies in a valley, with the surrounding area a couple feet above grade. Natural grade drains from north to south. The estimated discharge will be the southern-most access gate on the property.

Sampling – One visit to date with no samples collected. This site was visited during the first dry season sampling event during this sampling year; no runoff was observed.

There are no historical sampling results for this site.

Aerial photography of the site is presented on Figure 19.

Figure 19 – Aerial Photograph of NGA #202 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

NGA SITE # 212 (Lam Farms)

Sampling Group: Group 3

Sampling Frequency - Rotating

Total / Irrigated Acres: 2.0 / 2.0

Sample site GPS location: N 34° 02' 36.5" W 118° 38' 47.8"

January 5, 2016, wet season, no sample collected



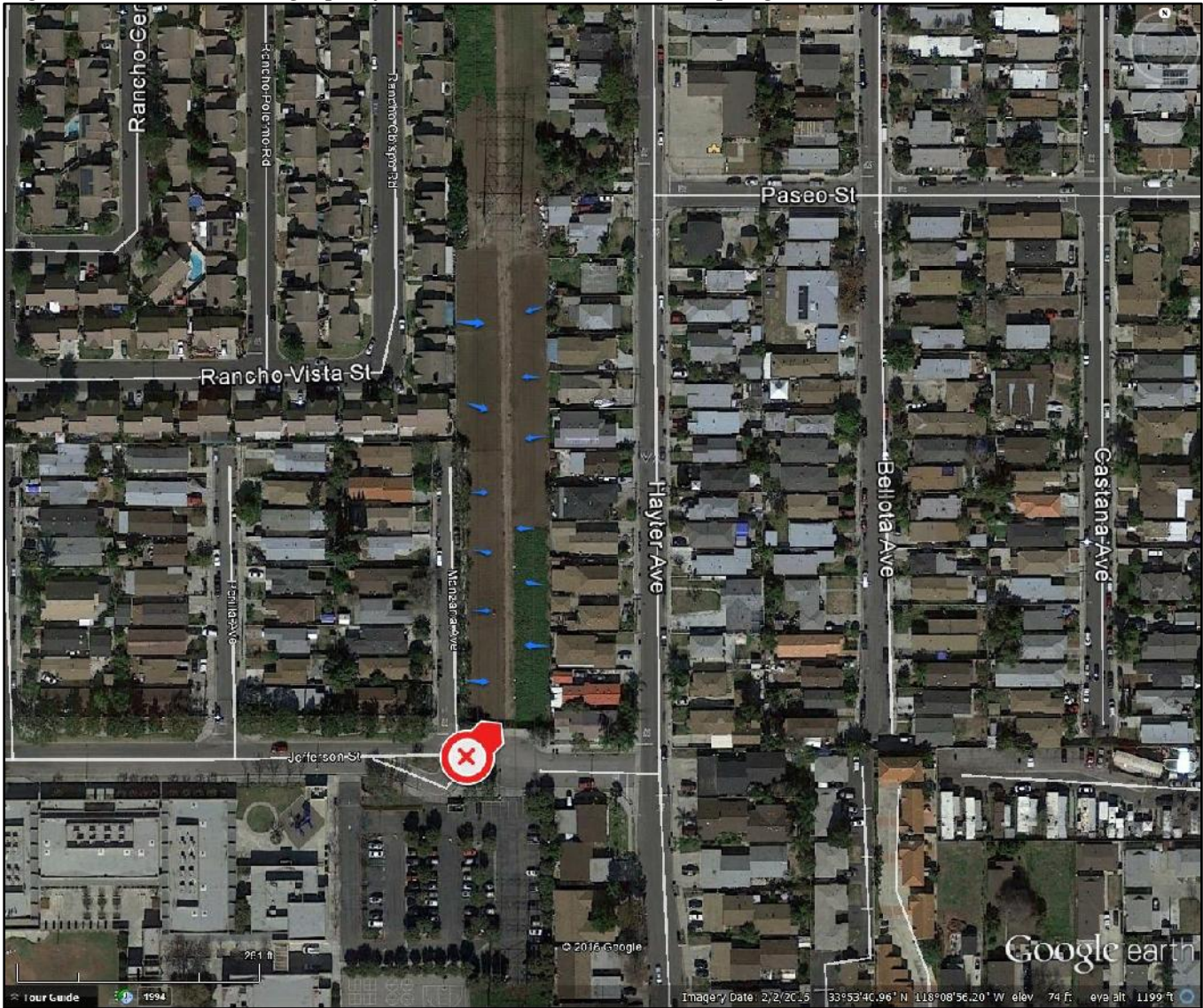
Site Drainage – The site is almost entirely flat and drains towards the center, and will most likely only discharge during flooding conditions. In that case, it would drain towards the south.

Sampling – One visit to date with no samples collected. This site was visited during the first wet season sampling event during this sampling year; no runoff was observed.

There are no historical sampling results for this site.

Aerial photography of the site is presented on Figure 20.

Figure 20 – Aerial Photograph of NGA #212 and General Sampling Location



General Sampling Location



General Surface Flow to Sampling Location

7.0 SUMMARY OF SAMPLING SITE RESULTS

7.1 WATER QUALITY BENCHMARK EXCEEDANCES

A total of 74 samples have been collected since the inception of the program. During this sampling year, a total of two samples were collected over one sampling event. A second sampling event was not conducted, due to lack of sufficient precipitation.

For or the purpose of analysis, benchmarks are broken into four general groups: general chemistry (including nutrients), pesticides, toxicity, and field monitoring. Water quality benchmarks for each group are presented in Section 5. A summary of WQBs exceeded during this sampling year, and throughout the life of the program, is presented below. Numerical values for each constituent are presented on the tables included in Appendix B, and laboratory analytical results are presented in Appendix C. A discussion of the exceedances follows.

7.1.1 General Chemistry

Based on laboratory analytical results, WQBs were exceeded for one general chemistry constituents in samples collected at one of the two sites sampled during this sampling year (Year 5 under Order No. R4-2010-0186). Table 26 summarizes general chemistry exceedances for individual constituents reported during this sampling year and throughout the life of the program. A complete summary of analytical results for general chemistry constituents is included in Appendix B.

Total Dissolved Solids

Laboratory results did not report TDS exceedances in any samples collected during this sampling period. Twenty-seven of the 74 total samples (36.5 %) collected throughout the life of the program have reported exceedances of TDS.

Chloride

Laboratory results did not report Chloride exceedances in any samples collected during this sampling period. Six of the 74 total samples (8.11 %) collected throughout the life of the program have reported exceedances of Chloride.

Sulfate

Laboratory results did not report Sulfate exceedances in any samples collected during this sampling period. Ten of the 74 total samples (13.5 %) collected throughout the life of the program have reported exceedances of Sulfate.

Nutrients (Nitrate/Ammonia/Phosphorus)

Laboratory results reported Nitrogen as Nitrate exceedances in one of the two samples during this sampling period, and 41 of the 74 total samples (55.4 %) collected throughout the life of the program. Laboratory results did not report Nitrogen as Ammonia exceedances in any samples collected during this sampling period. Four of the 74 total samples (5.41 %) collected throughout the life of the program have reported exceedances of Ammonia. WQBs for Phosphate have not been established.

Table 26 - Summary of Water Quality Exceedances, General Chemistry

| Constituent | CWIL Order # R4-2005-0080 | | | | | | | | | | | | Total | % of samples |
|-------------------------------------|---------------------------|----------|------------|----------|------------|----------|------------|----------|------------|------------|------------|------------|-------|--------------|
| | YEAR 1 | | | | YEAR 2 | | | | YEAR 3 | | YEAR 4 | | | |
| | Dry Season | | Wet Season | | Dry Season | | Wet Season | | Dry Season | Wet Season | Dry Season | Wet Season | | |
| | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #1 | Event #1 | Event #1 | | |
| Ammonia | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | ns | ns | ns | ns | 4 | 7.7% |
| TDS | 4 | 3 | 5 | 2 | 1 | 0 | 2 | 2 | ns | ns | ns | ns | 19 | 36.5% |
| Sulfate | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 2 | ns | ns | ns | ns | 6 | 11.5% |
| Chloride | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | ns | ns | ns | ns | 5 | 9.6% |
| Nitrogen | 3 | 3 | 7 | 2 | 2 | 1 | 4 | 8 | ns | ns | ns | ns | 30 | 57.7% |
| Total Number of Exceedances | 9 | 7 | 15 | 7 | 3 | 1 | 9 | 13 | ns | ns | ns | ns | 64 | |
| Average # of Exceedances per sample | 1.80 | 2.33 | 1.07 | 0.88 | 1.50 | 1.00 | 1.13 | 1.18 | ns | ns | ns | ns | 1.23 | |
| Number of Samples Collected | 5 | 3 | 14 | 8 | 2 | 1 | 8 | 11 | ns | ns | ns | ns | 52 | |

ns Program suspended, no sample collected

| Constituents | CWIL Order # R4-2010-0186 | | | | | | | | | | | | | | | | | Total | % of samples | | | |
|-------------------------------------|---------------------------|------------|------------|----------|------------|----------|------------|----------|------------|------------|----------|------------|------------|----------|------------|----------|------------|-------|--------------|------------|----------|-------|
| | Interim Sampling | YEAR 1 | | | | YEAR 2 | | | YEAR 3 | | | YEAR 4 | | | | YEAR 5 | | | | | | |
| | | March 2011 | Dry Season | | Wet Season | | Dry Season | | Wet Season | Dry Season | | Wet Season | Dry Season | | Wet Season | | Dry Season | | | Wet Season | | |
| | | | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #1 | Event #2 | Event #1 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | | | Event #2 | Event #1 | |
| Ammonia | 0 | -- | -- | 0 | 0 | -- | -- | -- | -- | -- | 0 | -- | -- | 0 | 0 | -- | -- | 0 | 0 | 0 | 0 | 0.0% |
| TDS | 3 | -- | -- | 1 | 1 | -- | -- | -- | -- | -- | 2 | -- | -- | 1 | 0 | -- | -- | 0 | 0 | 8 | 8 | 36.4% |
| Sulfate | 0 | -- | -- | 1 | 1 | -- | -- | -- | -- | -- | 1 | -- | -- | 1 | 0 | -- | -- | 0 | 0 | 4 | 4 | 18.2% |
| Chloride | 0 | -- | -- | 0 | 0 | -- | -- | -- | -- | -- | 1 | -- | -- | 0 | 0 | -- | -- | 0 | 0 | 1 | 1 | 4.5% |
| Nitrogen | 2 | -- | -- | 2 | 1 | -- | -- | -- | -- | -- | 3 | -- | -- | 1 | 1 | -- | -- | 1 | 1 | 11 | 11 | 50.0% |
| Total Number of Exceedances | 5 | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 3 | 1 | 0 | 0 | 1 | 1 | 24 | 24 | |
| Average # of Exceedances per sample | 1.25 | -- | -- | 1.00 | 0.75 | -- | -- | -- | -- | -- | 1.40 | -- | -- | 1.50 | 1.00 | -- | -- | 0.50 | 0.50 | 1.09 | 1.09 | |
| Number of Samples Collected | 4 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 1 | 0 | 0 | 2 | 2 | 22 | 22 | |

-- No sample collected

7.1.2 Pesticides

Based on laboratory analytical results, no WQBs were exceeded for pesticides in samples collected during this sampling year (Year 5 under Order No. R4-2010-0186). Table 27 summarizes pesticide exceedances for individual constituents reported throughout the life of the program. A complete summary of analytical results for the analyzed pesticide constituents is included in Appendix B.

OC Pesticides

Laboratory results did not report OC Pesticide exceedances in the two samples collected this sampling year. There have been 58 individual constituent exceedances in the 74 total samples collected throughout the life of the program.

Chlordane and 4,4' DDE have been the most prevalent OC pesticides detected, accounting for 39 of the 58 total exceedances. Exceedances were more prevalent during the previous waiver period (CWIL Order #R4-2005-0080).

OP Pesticides

Laboratory results did not report OP Pesticide exceedances in the two samples collected this sampling year. There have been 25 individual constituent exceedances in the 74 total samples collected throughout the life of the program.

OP pesticides detected over WQBs throughout both waiver periods have been Chlorpyrifos, Diazinon, and Malathion.

Pyrethroids

Laboratory results did not report Pyrethroid Pesticide exceedances in the two samples collected this sampling year. There have been 91 individual constituent exceedances in the 74 total samples collected throughout the life of the program.

Table 27 - Summary of Water Quality Exceedances, Pesticides

| Constituent | CWIL Order # R4-2005-0080 | | | | | | | | | | | | Total | % of samples |
|--|---------------------------|----------|------------|----------|------------|----------|------------|----------|------------|------------|------------|------------|-------|--------------|
| | YEAR 1 | | | | YEAR 2 | | | | YEAR 3 | | YEAR 4 | | | |
| | Dry Season | | Wet Season | | Dry Season | | Wet Season | | Dry Season | Wet Season | Dry Season | Wet Season | | |
| | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #1 | Event #1 | Event #1 | | |
| Waiver Limitations | | | | | | | | | | | | | | |
| OC Pesticides | | | | | | | | | | | | | | |
| Clordane | 1 | 0 | 6 | 1 | 2 | 1 | 4 | 3 | ns | ns | ns | ns | 18 | 34.62% |
| 4,4' DDT | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | ns | ns | ns | ns | 7 | 13.46% |
| 4,4' DDD | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 2 | ns | ns | ns | ns | 9 | 17.31% |
| 4,4' DDE | 2 | 1 | 5 | 2 | 0 | 1 | 2 | 4 | ns | ns | ns | ns | 17 | 32.69% |
| Dieldrin | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ns | ns | ns | ns | 0 | 0.00% |
| Toxaphene | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | ns | ns | ns | ns | 1 | 1.92% |
| Waiver, OC Pesticide # of Exceedances | 7 | 5 | 15 | 5 | 2 | 2 | 6 | 10 | 0 | 0 | 0 | 0 | 52 | |
| OP Pesticides | | | | | | | | | | | | | | |
| Chlorpyrifos | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 3 | ns | ns | ns | ns | 7 | 13.46% |
| Diazinon | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | ns | ns | ns | ns | 5 | 9.62% |
| Waiver, OP Pesticide # of Exceedances | 0 | 0 | 4 | 2 | 1 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 12 | |
| Aquatic Life Guidelines | | | | | | | | | | | | | | |
| OP Pesticides | | | | | | | | | | | | | | |
| Malathion | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 2 | ns | ns | ns | ns | 5 | 9.62% |
| ALB, OP Pesticide # of Exceedances | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 5 | |
| Pyrethroid Pesticides | | | | | | | | | | | | | | |
| Bifenthrin | 1 | 2 | 4 | 0 | 0 | 0 | 2 | 3 | ns | ns | ns | ns | 12 | 23.08% |
| Cyfluthrin | 2 | 1 | 4 | 2 | 0 | 0 | 5 | 4 | ns | ns | ns | ns | 18 | 34.62% |
| Fenpropathrin (Danitol) | 1 | 0 | 3 | 2 | 1 | 0 | 2 | 2 | ns | ns | ns | ns | 11 | 21.15% |
| Fluvalinate | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 3 | ns | ns | ns | ns | 7 | 13.46% |
| Deltamethrin | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 2 | ns | ns | ns | ns | 7 | 13.46% |
| Lambda-cyhalothrin | 1 | 0 | 1 | 1 | 1 | 0 | 6 | 2 | ns | ns | ns | ns | 12 | 23.08% |
| Permethrin | 1 | 1 | 4 | 0 | 1 | 0 | 3 | 4 | ns | ns | ns | ns | 14 | 26.92% |
| ALB, Pyrethroid Pesticide # of Exceedances | 6 | 5 | 18 | 7 | 5 | 0 | 20 | 20 | 0 | 0 | 0 | 0 | 81 | |
| Total Number of Exceedances | 13 | 10 | 38 | 15 | 9 | 2 | 27 | 36 | ns | ns | ns | ns | 150 | |
| Average # of Exceedances per sample | 2.60 | 3.33 | 2.71 | 1.88 | 4.50 | 2.00 | 3.38 | 3.27 | ns | ns | ns | ns | 2.88 | |
| Number of Samples Collected | 5 | 3 | 14 | 8 | 2 | 1 | 8 | 11 | ns | ns | ns | ns | 52 | |

ni Not included in laboratory analytical suite during this Waiver period
 ns Program suspended, no sample collected

Table 27 cont.- Summary of Water Quality Exceedances, Pesticides

| Constituents | CWIL Order # R4-2010-0186 | | | | | | | | | | | | | | | | | Total | % of samples | |
|--|---------------------------|------------|----------|------------|----------|------------|------------|----------|------------|------------|----------|------------|----------|------------|----------|------------|------------|-------|--------------|----------|
| | Interim Sampling | YEAR 1 | | | | YEAR 2 | | | YEAR 3 | | | YEAR 4 | | | | YEAR 5 | | | | |
| | | Dry Season | | Wet Season | | Dry Season | Wet Season | | Dry Season | Wet Season | | Dry Season | | Wet Season | | Dry Season | Wet Season | | | |
| | | March 2011 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | Event #2 | Event #1 | | | Event #2 |
| Waiver Limitations | | | | | | | | | | | | | | | | | | | | |
| OC Pesticides | | | | | | | | | | | | | | | | | | | | |
| Clordane | 1 | -- | -- | 0 | 0 | -- | -- | -- | -- | -- | 0 | -- | -- | 0 | 0 | -- | -- | 0 | 1 | 4.55% |
| 4,4' DDT | 1 | -- | -- | 0 | 0 | -- | -- | -- | -- | -- | 0 | -- | -- | 0 | 0 | -- | -- | 0 | 1 | 4.55% |
| 4,4' DDD | 0 | -- | -- | 0 | 0 | -- | -- | -- | -- | -- | 0 | -- | -- | 0 | 0 | -- | -- | 0 | 0 | 0.00% |
| 4,4' DDE | 1 | -- | -- | 1 | 1 | -- | -- | -- | -- | -- | 0 | -- | -- | 0 | 0 | -- | -- | 0 | 3 | 13.64% |
| Dieldrin | 1 | -- | -- | 0 | 0 | -- | -- | -- | -- | -- | 0 | -- | -- | 0 | 0 | -- | -- | 0 | 1 | 4.55% |
| Toxaphene | 0 | -- | -- | 0 | 0 | -- | -- | -- | -- | -- | 0 | -- | -- | 0 | 0 | -- | -- | 0 | 0 | 0.00% |
| Waiver, OC Pesticide # of Exceedances | 4 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| OP Pesticides | | | | | | | | | | | | | | | | | | | | |
| Chlorpyrifos | 3 | -- | -- | 0 | 1 | -- | -- | -- | -- | -- | 1 | -- | -- | 0 | 0 | -- | -- | 0 | 5 | 22.73% |
| Diazinon | 1 | -- | -- | 0 | 0 | -- | -- | -- | -- | -- | 0 | -- | -- | 0 | 0 | -- | -- | 0 | 1 | 4.55% |
| Waiver, OP Pesticide # of Exceedances | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| Aquatic Life Guidelines | | | | | | | | | | | | | | | | | | | | |
| OP Pesticides | | | | | | | | | | | | | | | | | | | | |
| Malathion | 1 | -- | -- | 0 | 1 | -- | -- | -- | -- | -- | 0 | -- | -- | 0 | 0 | -- | -- | 0 | 2 | 9.09% |
| ALB, OP Pesticide # of Exceedances | 1 | -- | -- | 0 | 1 | -- | -- | -- | -- | -- | 0 | -- | -- | 0 | 0 | -- | -- | 0 | 2 | |
| Pyrethroid Pesticides | | | | | | | | | | | | | | | | | | | | |
| Bifenthrin | 0 | -- | -- | 0 | 0 | -- | -- | -- | -- | -- | 1 | -- | -- | 1 | 0 | -- | -- | 0 | 2 | 9.09% |
| Cyfluthrin | 0 | -- | -- | 0 | 0 | -- | -- | -- | -- | -- | 1 | -- | -- | 0 | 0 | -- | -- | 0 | 1 | 4.55% |
| Cypermethrin | 0 | -- | -- | 0 | 0 | -- | -- | -- | -- | -- | 0 | -- | -- | 0 | 0 | -- | -- | 0 | 0 | 0.00% |
| Fenprothrin (Danitol) | -- | -- | -- | ni | ni | -- | -- | -- | -- | -- | 0 | -- | -- | 1 | 0 | -- | -- | 0 | 1 | 4.55% |
| Deltamethrin | 0 | -- | -- | 1 | 0 | -- | -- | -- | -- | -- | 0 | -- | -- | 0 | 0 | -- | -- | 0 | 1 | 4.55% |
| Lambda-cyhalothrin | 0 | -- | -- | 0 | 0 | -- | -- | -- | -- | -- | 0 | -- | -- | 0 | 0 | -- | -- | 0 | 0 | 0.00% |
| Permethrin | 2 | -- | -- | 0 | 1 | -- | -- | -- | -- | -- | 1 | -- | -- | 1 | 0 | -- | -- | 0 | 5 | 22.73% |
| ALB, Pyrethroid Pesticide # of Exceedances | 2 | -- | -- | 1 | 1 | -- | -- | -- | -- | -- | 3 | -- | -- | 3 | 0 | -- | -- | 0 | 10 | |
| Total # of Exceedances | 11 | -- | -- | 2 | 4 | -- | -- | -- | -- | -- | 4 | -- | -- | 3 | 0 | -- | -- | 0 | 24 | |
| Average # of Exceedances per sample | 2.75 | -- | -- | 0.50 | 1.00 | -- | -- | -- | -- | -- | 0.80 | -- | -- | 1.50 | 0.00 | -- | -- | 0.00 | 1.09 | |
| Number of Samples Collected | 4 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 1 | 0 | 0 | 2 | 22 | |

ni Not included in laboratory analytical suite during this Waiver period
 -- No samples collected

7.1.3 Toxicity

Based on laboratory analytical results, toxicity was not significant enough to initiate a TIE in either of the two samples collected this sampling year. A total of 15 TIEs have been conducted throughout the life of the program. Seven of the TIEs did not show a significant observed toxicity effect in follow up testing.

TIE results indicated a variety of reasons for toxicity, including non-polar organic compounds, particulate-bound toxicants, volatile compounds, organophosphates, particulate bound toxicants, metals, and a combination of the previously listed toxicants. A historical summary of analytical results for toxicity testing is included for each site in Appendix B.

7.1.4 Field Monitoring Results

Field Monitoring Water Quality Benchmarks are based on the surface water and groundwater basin objectives currently contained in the Basin Plan or other applicable water quality standards established for the Los Angeles Region. Field monitoring readings did not exceed Basin Plan objectives at any site sampled during the Waiver Period. A historical summary of results for field measurements is included for each site in Appendix B. Hard copies of field data sheets and field reports are kept on file at PacRL, and are available upon request.

7.2 QUALITY ASSURANCE AND QUALITY CONTROL

QA/QC of data collected during Year 5 under CWIL Order No. R4-2010-0186 fell within acceptable control limits established by the analyzing laboratories, and are included in the tables in Appendix B and laboratory analytical documentation included in Appendix C. Field blanks and equipment blanks collected by PacRL did not report any concentrations above laboratory MRLs, except for Heptachlor in the equipment blank, which was not detected in any other sample. All field monitoring equipment was calibrated prior to each monitoring event, and verified after calibration with mid-range standards. Calibration logs are kept on-file at PacRL.

Field duplicates and laboratory duplicates are used to check the precision of samples. The precision of field duplicates were acceptable for all constituents this reporting period. Lab duplicates, blank spike duplicates, laboratory control spike duplicates, and matrix spike duplicates were all accepted by the laboratory and did not cause any data to be estimated, as discussed in the laboratory analytical report.

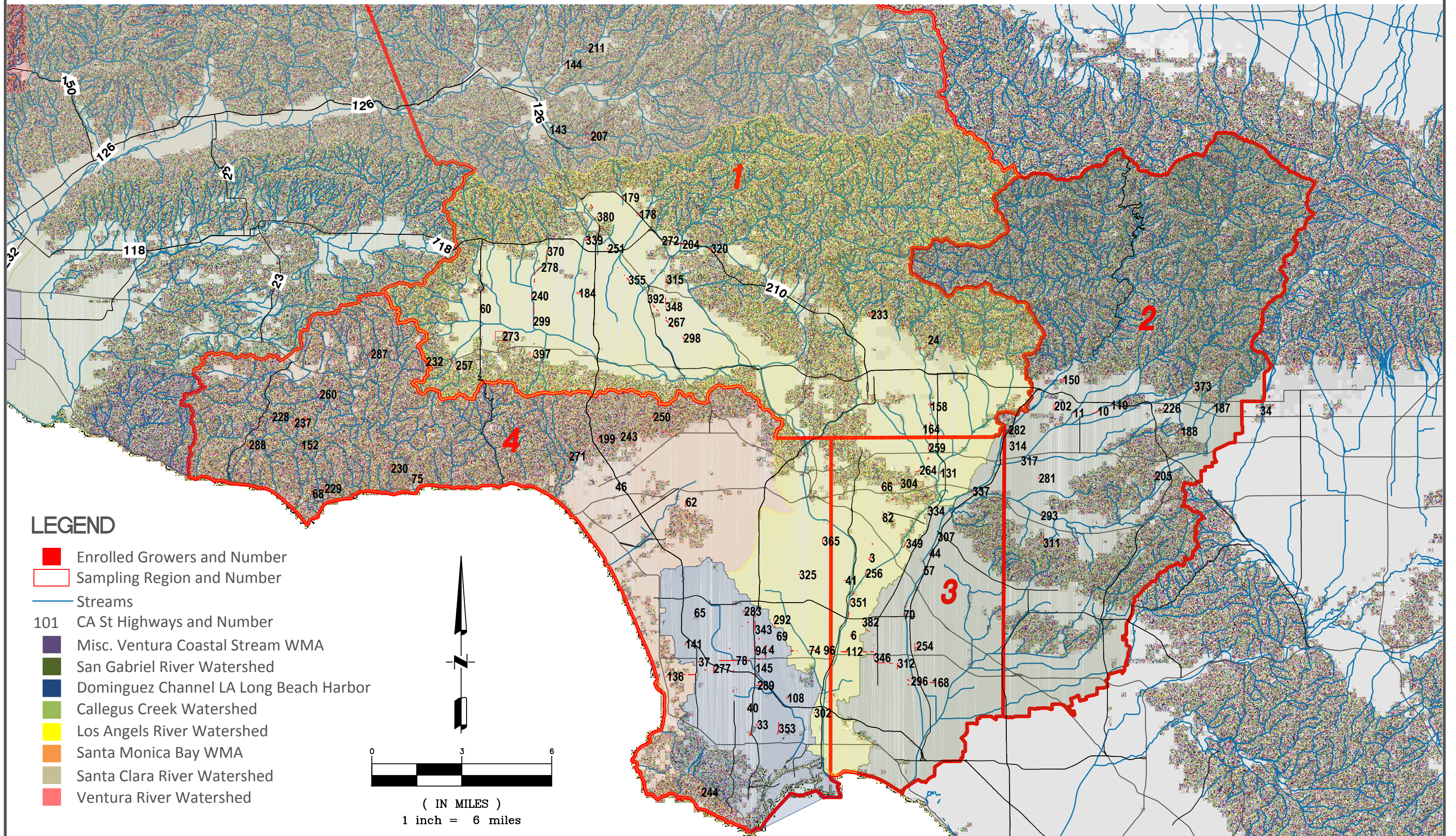
Percent recoveries for bank spike samples, laboratory control samples, and matrix spike samples are used to check the accuracy of samples. Some of these values fell outside the QAQC limits set in the QAPP, however, data was considered valid due to varying reasons, as discussed in the laboratory analytical report included in Appendix C.

8.0 DISCUSSION / CONCLUSION

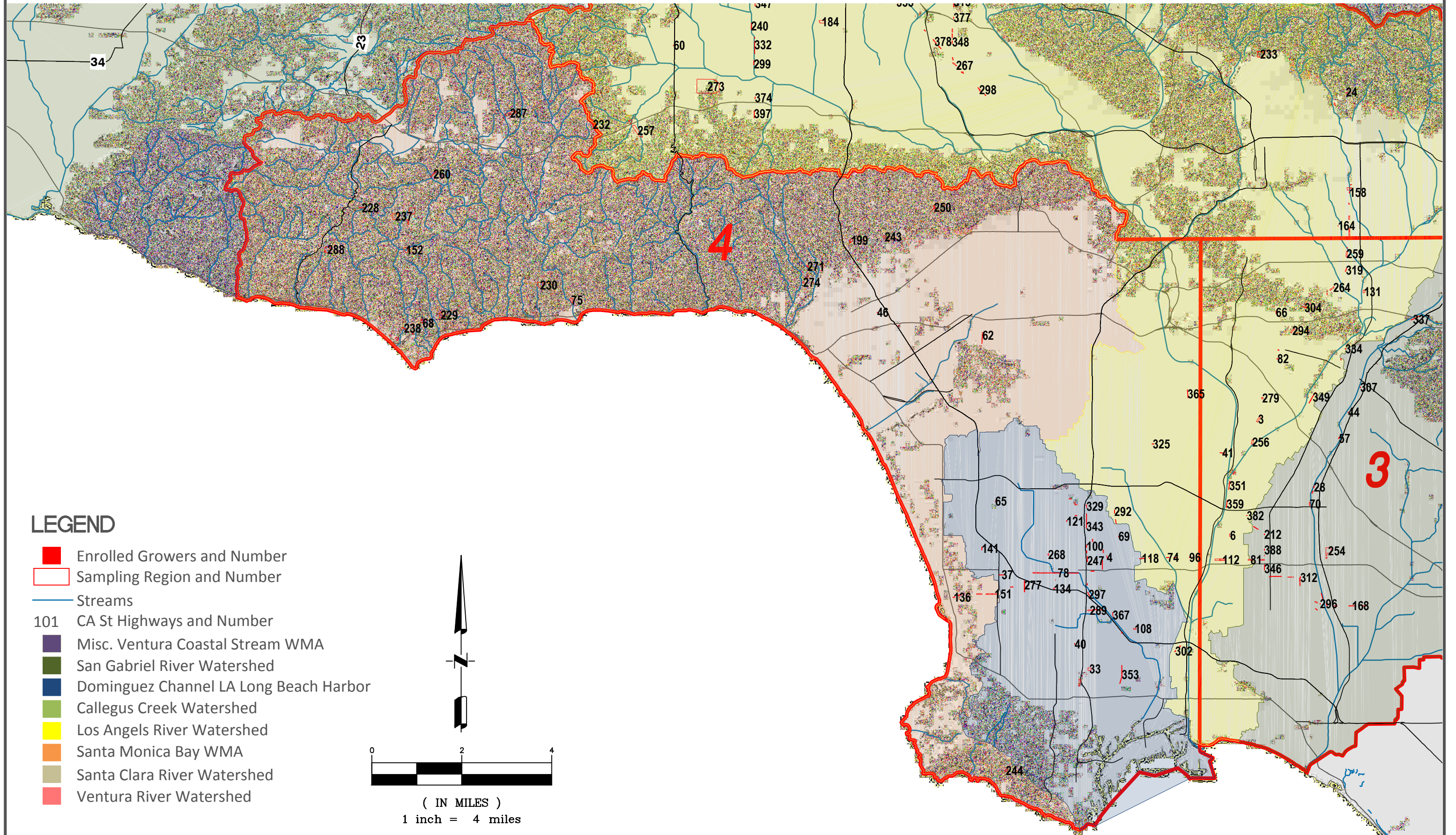
A total of two sampling events were conducted during the dry season of the first year of CWIL Order No. R4-2016-0143 and one sampling event was conducted during the wet season during the fifth year of CWIL Order No. R4-2010-0186. No runoff was observed or sampled during the dry season, and two of the five sites visited were sampled during the wet season.

WQB exceedances were observed for Nitrogen in one of the collected samples. The LAILG will continue with the current WQMP and MRP until more information is gathered to prepare an updated MRP under Order R4-2016-0143.

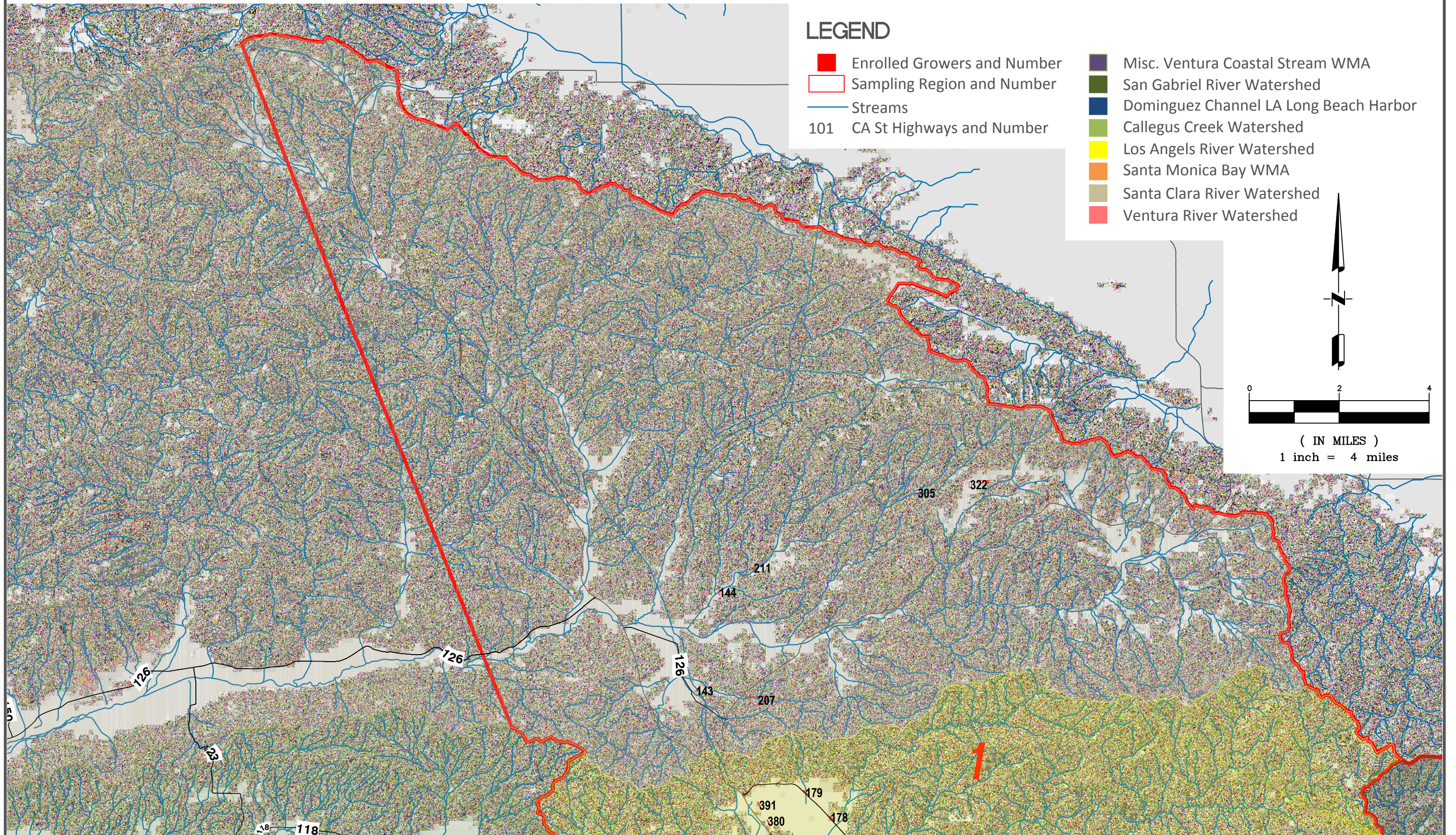
FIGURE 1 LOS ANGELES COUNTY IRRIGATED LANDS GROUP
LOS ANGELES REGIONAL WATERSHEDS



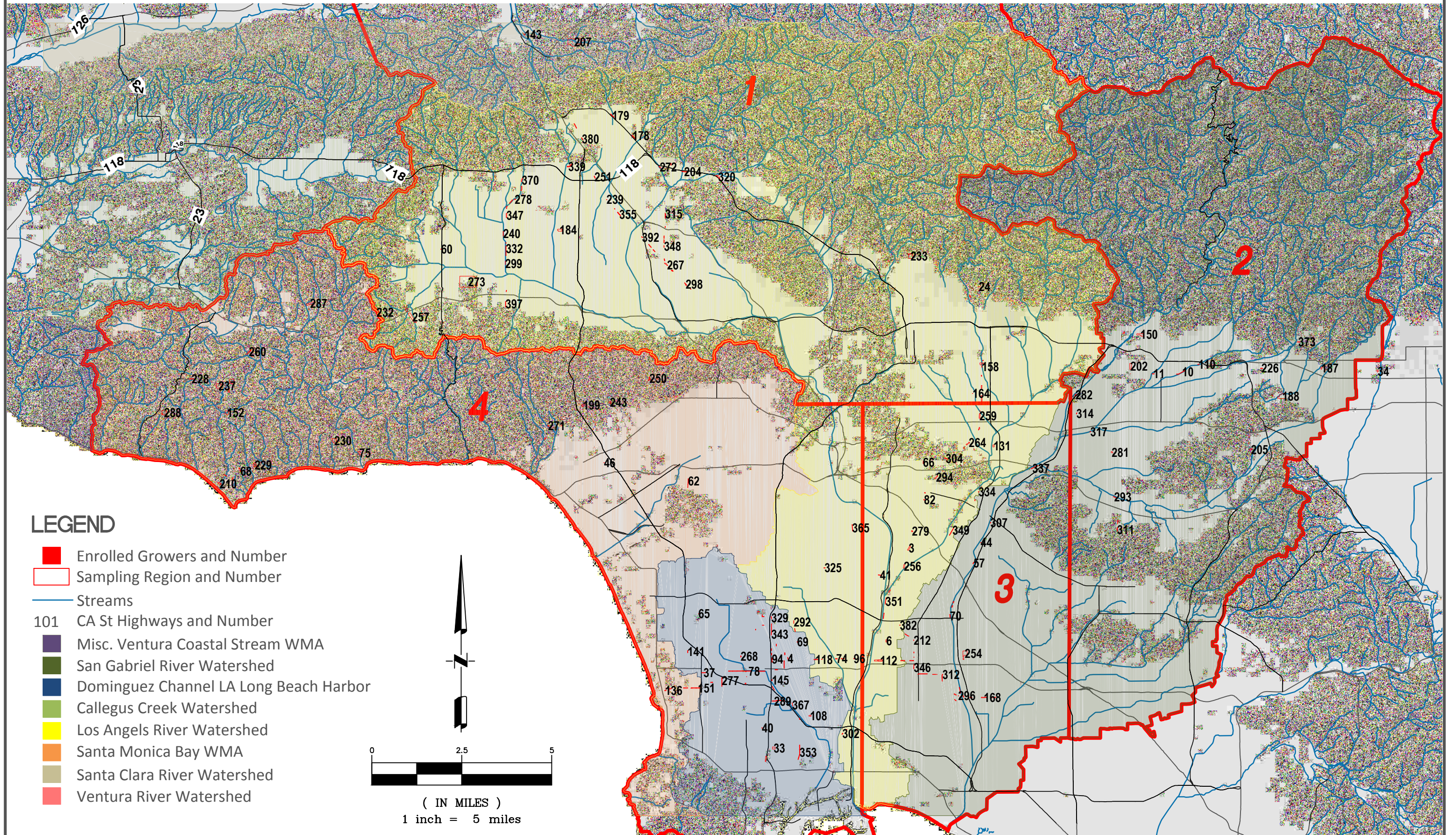
**FIGURE 1.1 LOS ANGELES COUNTY IRRIGATED LANDS GROUP
SANTA MONICA BAY WMA**



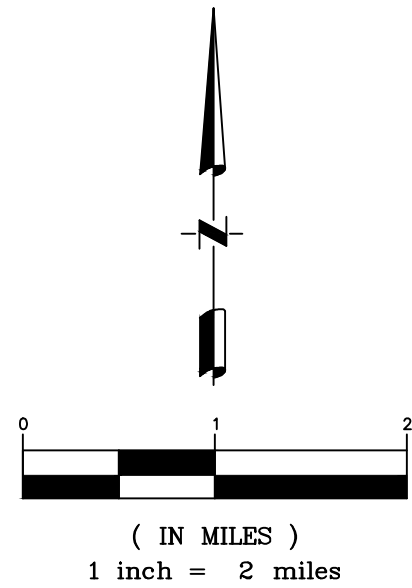
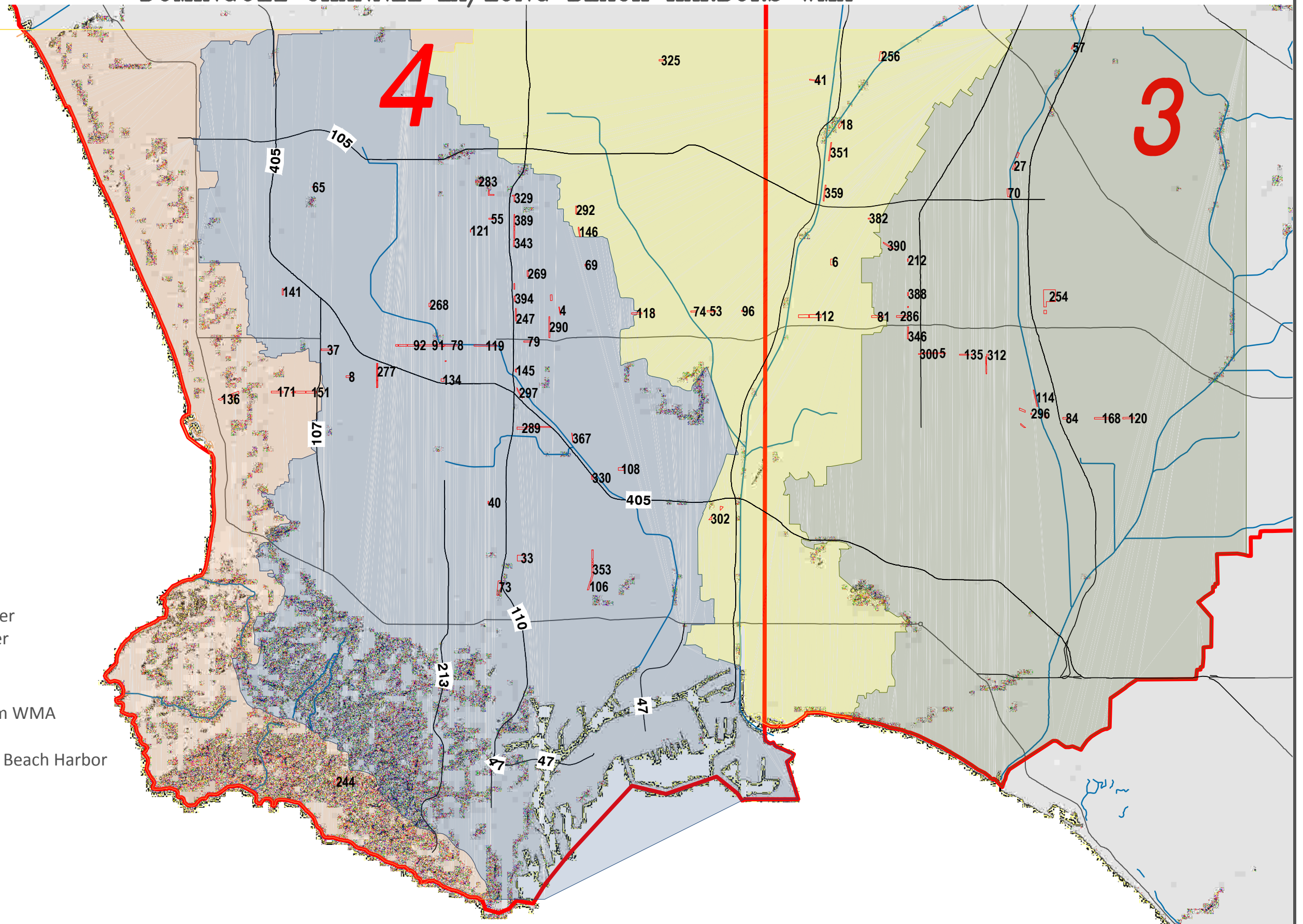
**FIGURE 1.2 LOS ANGELES COUNTY IRRIGATED LANDS GROUP
SANTA CLARA RIVER WATERSHED**



**FIGURE 1.3 LOS ANGELES COUNTY IRRIGATED LANDS GROUP
LOS ANGELES RIVER WATERSHED**



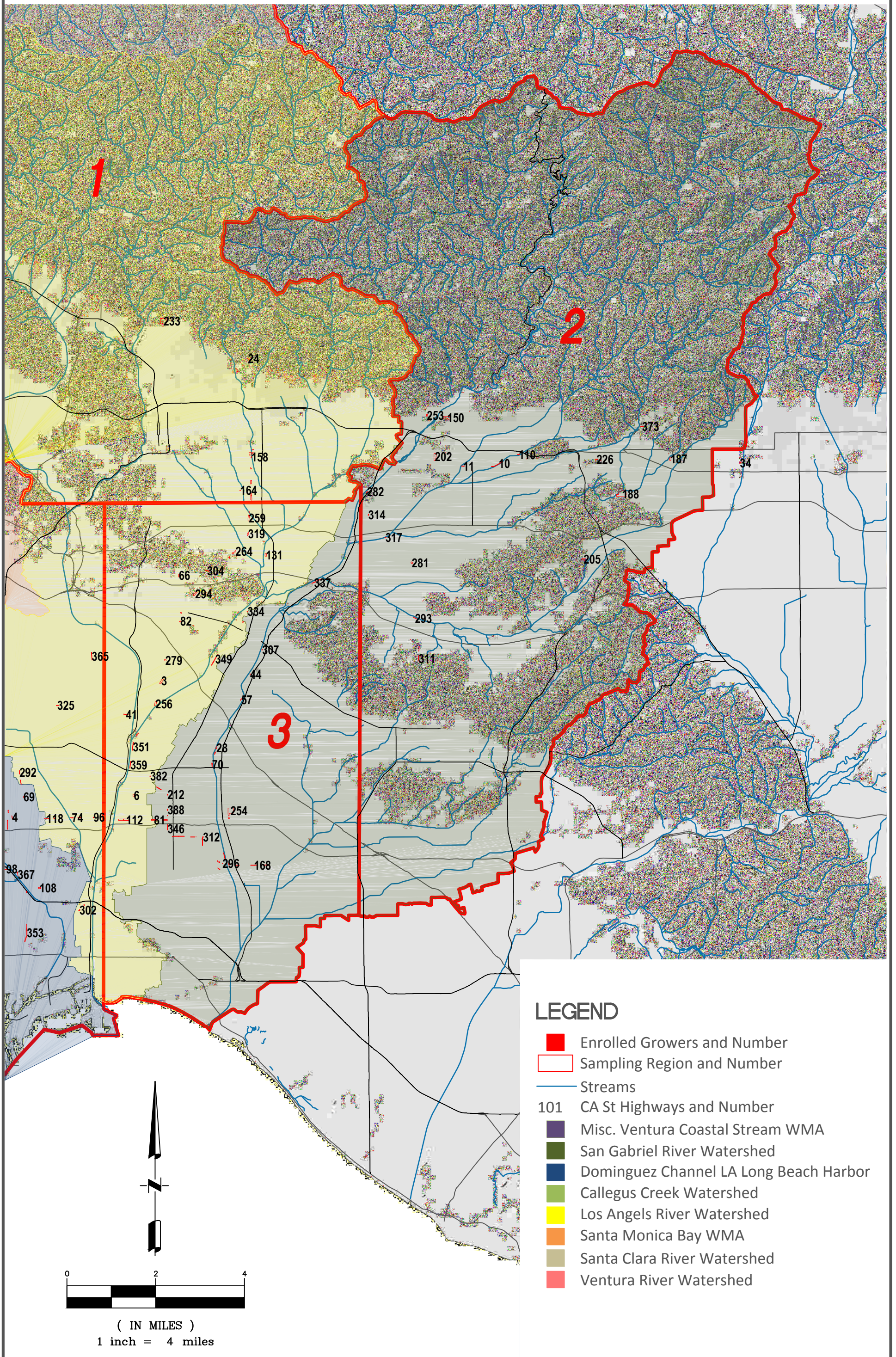
**FIGURE 1.4 LOS ANGELES COUNTY IRRIGATED LANDS GROUP
DOMINGUEZ CHANNEL LA/LONG BEACH HARBORS WMA**



LEGEND

- Enrolled Growers and Number
- Sampling Region and Number
- Streams
- 101 CA St Highways and Number
- Misc. Ventura Coastal Stream WMA
- San Gabriel River Watershed
- Dominguez Channel LA Long Beach Harbor
- Callegus Creek Watershed
- Los Angeles River Watershed
- Santa Monica Bay WMA
- Santa Clara River Watershed
- Ventura River Watershed

**FIGURE 1.5 LOS ANGELES COUNTY IRRIGATED LANDS GROUP
SAN GABRIEL WATERSHED**



APPENDIX A

**UPDATED LIST OF LOS ANGELES COUNTY IRRIGATED LANDS
GROUP, AS OF DECEMBER, 2016**

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Watershed | ACREAGE | |
|-------|---------------------|-------------------------------|--|-----------------------------|---------------|------------------------|---------------|-------|-------|-----------|-----------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 323 | 3 Pinos Nursery | Bartolo Lopez S. | 2126001901 2126014900 | Sherman Way and Wilbur Ave. | Reseda | 8427 Shirley Ave. | Reseda | CA | 91324 | IP | IP | 1.8 | 1.8 |
| 324 | 90-90 Nursery | Jose Salazar | IP | 14667 Tupper St. | Panorama City | 14667 Tupper St. | Panorama City | CA | 91402 | IP | IP | 1 | 0.86 |
| 276 | AJ Nursery, Inc. | Juan Ramos / Augustin Cazarez | 7318001802 7318001801 | 1600 S. Wilmington Ave | Compton | 1600 S. Wilmington Ave | Compton | CA | 90220 | GO | D | 6.50 | 5.00 |
| 18 | AY Nursery, Inc. | Hugo Ayon | 6233003803 6233003802 6233003800 6232016801 6232016800 6232016802 6232017804 6232017803 | 10115 South Garfield Ave | South Gate | P. O. Box 4115 | Riverside | CA | 92514 | GO | LA | 4.5 | 3.50 |
| 206 | A & R Nursery, Inc. | Adrian Lopez | 5284023801 | 7950 Graves Ave | Rosemead | 7950 Graves Ave | Rosemead | CA | 91770 | GO | LA | 2.50 | 0.80 |
| 3 | ABC Nursery, Inc. | Eric Yonemura | 6329001800 6329001801 6330019801 6330019800 | 6800 Darwell Avenue | Bell Gardens | 424 East Gardena Blvd. | Gardena | CA | 90248 | GO | LA | 22.21 | 10.20 |
| 4 | ABC Nursery, Inc. | Eric Yonemura | 6126011028 6126011029 6126011035 6126011036 6126011800 | 424 E. Gardena Boulevard | Gardena | 424 East Gardena Blvd. | Gardena | CA | 90248 | GO | D | 19.19 | 11.51 |
| 5 | ABC Nursery, Inc. | Eric Yonemura | 7168034800 7168034801 7168034281 7168034285 7168034270 7168034289 7168034276 7168034278 7168034272 7168034280 7168034273 7168034274 | 6221 Clark Avenue | Lakewood | 424 East Gardena Blvd. | Gardena | CA | 90248 | GO | SG | 6.40 | 2.70 |
| 6 | ABC Nursery, Inc. | Eric Yonemura | 6240008800 6240008801 6240008802 | 7132 Somerset Boulevard | Paramount | 424 East Gardena Blvd. | Gardena | CA | 90248 | GO | LA | 9.52 | 4.87 |
| 7 | ABC Nursery, Inc. | Eric Yonemura | 7049021800 7049021801 7049021802 7049021803 7049021802 7049021800 | 20200 Studebaker | Cerritos | 424 East Gardena Blvd. | Gardena | CA | 90248 | GO | LA | 13.84 | 8.30 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Waters hed | ACREAGE | |
|-------|--|--------------------------------|--|---------------------|----------------|-----------------------------|----------------|-------|-------|-----------|------------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 8 | ABC Nursery, Inc. | Eric Yonemura | 4089009800, 4089016802, 4089016800, 4089011801, 4089011800, 4089010800, 4089009800 4089010800 4089011800 4089011801 4089017800 4089016802 4089016800 | 18601 Yukon Avenue | Torrance | 424 East Gardena Blvd. | Gardena | CA | 90248 | GO | D | 21.97 | 10.20 |
| 277 | Abeja Nursery | Marlene / Dimas Carbajal Abeja | 4089016802 | 18601 Ermanita Ave. | Torrance | 18601 Ermanita Ave. | Torrance | CA | 90504 | GO | D | 4.00 | 3.00 |
| 9 | Acosta Growers Inc. | Eddie Acosta / Carlos Acosta | 8622022270 8622012271 8622013270 8622022006 | 5359 Citrus Ave | Azusa | 18012 E. Alford St. | Azusa | CA | 91702 | GO | SG | 3.00 | 2.25 |
| 10 | Acosta Growers Inc. | Eddie Acosta / Carlos Acosta | 8630008274 8629002270 | 1050 E Gladstone St | Azusa | 18012 E. Alford St. | Azusa | CA | 91702 | GO | SG | 7.00 | 5.25 |
| 11 | Acosta Growers Inc. | Eddie Acosta / Carlos Acosta | 8620022270 8620015270 8620015272 8620005271 8620024273 8620024272 8621025271 8621025270 8621015270 8621016272 8620015270 8620015272 8620022270 8620024272 | 669 S Azusa Ave | Azusa | 18012 E. Alford St. | Azusa | CA | 91702 | GO | SG | 10.00 | 7.50 |
| 308 | Agua Dulce Winery | Judy Kajama | 3213014051 ? | 9640 sierra highway | Agua Dulce | 9640 Sierra Hwy | Agua Dulce | CA | 91390 | V | SC | 75.00 | 62.00 |
| 305 | Alonso Vineyard | Juan Alonso | 3214043017 3214043027 3214020064 3214020044 | 12625 Sierra Hwy | Santa Clarita | 9124 E. Gallatin Rd. | Pico Rivera | CA | 90660 | V | IP | 39.00 | 6.50 |
| 309 | Alvarez Nursery | Elias Alvarez | 2666003901 | 11362 Woodley Ave. | Granada Hills | IP | IP | CA | 91344 | GO | LA | 6.19 | 5.00 |
| 326 | American Growers Plus, Inc. | Nick A. Gomez | 2103012901 | 18830 Strathem St. | Reseda | 18436 E. Section Center St. | Covina | CA | 91722 | IP | LA | 1.05 | 1.05 |
| 327 | American Sprinkler & Cardanali Nursery | IP | IP | 23429 Erwin St. | Woodland Hills | 23429 Erwin St. | Woodland Hills | CA | 91367 | IP | LA | 2.05 | 2.05 |
| 236 | Amigos Nursery, LLC | Sergio Vasquez | 6049008278 6049009282 6049018292 6049009285 | 1420 E. 92nd Street | Los Angeles | P.O. Box 927 | Downey | CA | 90241 | GO | LA | 9.00 | 7.00 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Watershed | ACREAGE | |
|-------|------------------------------------|--|--|--|------------------|--------------------------|------------------|-------|-------|-----------|-----------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 330 | Amy's Garden | Amy Gonzales | 7337005273 | South of the 405 Fwy & North of Carson St. | Carson | 3650 Pine Ave. | Long Beach | CA | 90807 | IP | D | 1.19 | 1.19 |
| 328 | Andres Ramirez Mendoza Nursery | Juan Ramirez | IP | 14715 S. Vermont Ave. | Gardena | 898 E. Deloras Dr | Carson | CA | 90745 | IP | D | 3.01 | 3.01 |
| 329 | Arnulfo Hernandez Nursery | Lucilla Gil | 6132003900 6132004900 | East of the 110 Freeway, between 130th Stand 135th St, Los Angeles | Los Angeles | PO Box 609 | Lawndale | CA | 90260 | IP | LA | 4.60 | 4.60 |
| 337 | Arturo Carbajal Nursery | Arturo Carbajal | 8125001901 | Southeast of the 60 Fwy and North of Pellisier Rd. | Whittier | 1215 N. Stimson Ave. | La Puente | CA | 91744 | IP | SG | 2.40 | 2.40 |
| 2 | Ayon Nursery | Adriana Ayon - Jesus Ayon | 8207019801 8207019802 | 16448 Haliburton Rd | Hacienda Heights | 16448 Haliburton Rd | Hacienda Heights | CA | 91745 | GO | SG | 6.00 | 5.00 |
| 211 | Barranquilla Nursery | Rosealina Malta | 2812005016 | 28920 Bouquet Canyon Road | Saugus | 28920 Boquet Canyon Road | Saugus | CA | 91390 | GO | SC | 2.50 | 2.00 |
| 332 | Ben-Chetrit, Shimon/Ramy's Nursery | IP | 2103015903 | East of Wilbur Ave. between Blythe St. and Elkwood St. | IP | 5926 Calvin Ave. | Tarzana | CA | 91356 | IP | IP | 3.60 | 3.60 |
| 264 | Ben K Bonsai | Young Min / Edward Min | 5284020801 | 2301 Kelburn Ave | Rosemead | 2301 Kelburn Ave | Rosemead | CA | 91770 | GO | LA | 1.00 | 0.50 |
| 278 | Bertha's Gardens/Western Gardens | Paul Diehl | 2731024901 2729024901 | 18451 Lassen St. | Northridge | 18451 Lassen St. | Northridge | CA | 91325 | GO | LA | 2.50 | 2.50 |
| 333 | Billy Lee Nursery | Billy Lee | IP | 13213 Essex Pl. | Cerritos | 6319 California St. | Long Beach | CA | 90805 | IP | LA | 2.84 | 2.84 |
| 334 | Bird of Paradise Nursery | Rogelio Garhlo | 5272009277 | 4112 Paramount Blvd. | Pico Rivera | 4112 Paramount Blvd. | Pico Rivera | CA | 90660 | IP | LA | 0.70 | 0.70 |
| 19 | Boething Treeland Farms, Inc. | Bruce Pherson | 2047001004 2047001001 2047001005 2047001002 2044020022 2047001001 2047001002 2047001004 2047001005 | 23475 Long Valley Road | Woodland Hills | 23475 Long Valley Road | Woodland Hills | CA | 91367 | GO | LA | 32.00 | 14.68 |
| 75 | Bridgeman Ranch | Jackie Bridgeman / Bob Tobias (Main contact) | 4452014006 | 3415 Cross Creek Rd | Malibu | 3415 Crosscreek Rd. | Malibu | CA | 90265 | O | SM | 5.00 | 3.00 |
| 200 | C & S Nursery, Inc. | Santiago Rosales II | 5025006900 | 3615 Hauser Bl | Los Angeles | P.O. Box 642179 | Los Angeles | CA | 90064 | GO | LA | 2.50 | 2.00 |
| 118 | C Stars Nursery, Inc. | Armida Torres or Norma Gonzales | 7319002806 | 1400 West Greenleaf Boulevard | Compton | P O Box 342 | Gardena | CA | 90247 | C | D | 4.50 | 2.50 |
| 119 | C Stars Nursery, Inc. | Armida Torres or Norma Gonzales | 6111023800 | 17654 South Normandie Avenue | Gardena | P O Box 342 | Gardena | CA | 90247 | C | D | 8.00 | 4.00 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Watershed | ACREAGE | |
|-------|---|-------------------------------------|--|--------------------------|-----------------|-----------------------|-----------------|-------|-------|-----------|-----------|----------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| | | | 2647023903 2644002905 2644002904 2644002900 2644004900 2644004902 2644004903 2644004901 2647025902 2647025901 | | | | | | | | | | |
| 239 | California Nurseries | Jose Gutierrez | 2647025900 | 14301 Van Nuys Blvd | Arleta | P.O. Box 2778 | North Hills | CA | 91393 | GO | LA | 7.50 | 7.50 |
| 240 | California Nurseries | Jose Gutierrez | 2784009902 | 18955 Roscoe Blvd | Northridge | P.O. Box 2778 | North Hills | CA | 91393 | GO | LA | 1.50 | 1.50 |
| 205 | California State Polytechnic University | Duncan McKee/Dave Matias | 8709023908 8709023907 8709023910 | 3801 W. Temple | Pomona | 3801 W. Temple Ave. | Pomona | CA | 91768 | M | SG | 1,200.00 | 336.00 |
| 24 | Calscape Growers | Chester (Dan) Robinson | 5860004004 | 2103 Villa Heights Rd | Pasadena | 2103 Villa Heights Rd | Pasadena | CA | 91104 | GO | LA | 0.25 | 0.20 |
| 26 | Canyon Way Nursery | Mark Wurzel | 2317019900 2317018900 2317017900 2317018900 2317019900 | 11745 Sherman Way | North Hollywood | 3214 Oakdell Road | Studio City | CA | 91604 | GO | LA | 4.98 | 4.25 |
| 335 | Carlos Mejia Nursery C&Y Nursery | Carlos Mejia | 2310008900 | 11811 Strathern St. | North Hollywood | 11811 Strathern St. | North Hollywood | CA | 91605 | IP | LA | 3.00 | 3.00 |
| 50 | Carreon Nursery | Guadalupe Carreon / Adriana Carreon | 5277023802 5277023803 5277023804 5277023805 | 7900 La Merced Road | Rosemead | 472 Giano Avenue | La Puente | CA | 91744 | GO | LA | 6.00 | 6.00 |
| 279 | Castaneda Nursery | Salud Castaneda | 6332018818 6332018815 6332018809 6332018811 | 6270 Slauson Ave | Commerce | 11500 Blanding St. | Whittier | CA | 90606 | GO | LA | 8.50 | 5.00 |
| 280 | Castaneda Nursery | Salud Castaneda | 5263037804 5263037801 5263037802 5263037805 | 1690 Isabella Ave. | Monterey Park | 11500 Blanding St. | Whittier | CA | 90606 | GO | LA | 5.00 | 4.00 |
| 78 | Centeno's Nursery & Landscaping | Jose Centeno / Rene Centeno | 6106013800 | 17600 S. Western Ave | Gardena | 17514 S. Figueroa St. | Gardena | CA | 90248 | GO | D | 4.39 | 3.00 |
| 79 | Centeno's Nursery & Landscaping | Jose Centeno / Rene Centeno | 7339006800 7339002803 7339003801 7339003800 7339007802 | 17514 S. Figueroa Street | Gardena | 17514 S. Figueroa St. | Gardena | CA | 90248 | GO | D | 7.70 | 6.00 |
| 81 | Centeno's Nursery & Landscaping | Jose Centeno / Rene Centeno | 7113014800 | 6850 N. Paramount Blvd | Long Beach | 17514 S. Figueroa St. | Gardena | CA | 90248 | GO | SG | 4.70 | 3.00 |
| 145 | Centeno's Nursery & Landscaping | Jose Centeno / Rene Centeno | 7339008913 7339008911 7339007901 | 565 W. 189th Street | Gardena | 17514 S. Figueroa St. | Gardena | CA | 90248 | GO | D | 4.67 | 3.00 |
| 84 | Cerritos Growers | Jose de Jesus Gallo / Maria Silva | 7050005800 7050005801 | 19805 Gridley Rd | Cerritos | 4943 Buffington Rd | El Monte | CA | 91732 | GO | SG | 3.5 | 3.00 |
| 120 | Cerritos Nursery, LLC | Ken Zhang/Bailey Yang | 7056013800 | 19820 Norwalk Blvd | Cerritos | 19820 Norwalk Blvd. | Cerritos | CA | 90703 | GO | SG | 4.50 | 4.50 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Watershed | ACREAGE | |
|-------|------------------------------------|------------------------------|--|--------------------------|----------------|--------------------------|---------------|-------|-------|-----------|-----------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 27 | Certified Plant Growers, Inc. | Tom Miesen | 8021020800 8021008806 8021008802 8021008801 8021008902 | 10400 Downey/Norwalk Rd | Norwalk | P.O. Box 1696 | Temecula | CA | 92593 | C | SG | 10.00 | 6.50 |
| 28 | Certified Plant Growers, Inc. | Tom Miesen | 8021005915 8021004801 8021004800 8021004805 8021004804 | 10524 E Firestone Blvd | Norwalk | P.O. Box 1696 | Temecula | CA | 92593 | C | SG | 2.50 | 1.50 |
| 243 | Chartwell Estate Vineyard | Scott Rich Jim Burrows | 4362016008 | 750 Bel Air Rd | Los Angeles | 750 Bel Air Rd | Los Angeles | CA | 90077 | V | SM | 1.50 | 1.00 |
| 265 | Chikugo-En Bonsai Nursery | Gary Ishii | 6106019064 6106019063 6106019062 | 18110 S Western Ave | Gardena | 18110 S Western Ave | Gardena | CA | 90248 | M | D | 1.00 | 0.75 |
| 226 | Choji Matsushita | Richard Matsushita | 8392014036 8392014035 | 724 N. Cataract Avenue | San Dimas | 724 N. Cataract Ave | San Dimas | CA | 91773 | F | SG | 3.80 | 1.70 |
| 304 | Chuy's Nursery | Jesus Martinez | 5265001808 | 1996 S. Orange Ave | Monterey Park | 9124 E. Gallatin Rd. | Pico Rivera | CA | 90660 | GO | LA | 3.00 | 2.00 |
| 218 | Cielo Farms Vineyard | Richard Hirsh | 4464008045 4464008019 4464008044 4464008032 | 31424 Mulholland Highway | Malibu | 31424 Mulholland Highway | Malibu | CA | 90265 | V | LA | 18.00 | 3.00 |
| 244 | Clark Vineyard | Chris Shaver / Dave Clark | 7567010026 | 11 Packsaddle Rd East | Rolling\ Hills | 220 Avenue I East | Redondo Beach | CA | 90274 | V | SM | 0.90 | 0.50 |
| 338 | Classic Landscaping & Nursery | Sam Mozes | 2127014006 ? | 18756 Erwin St. | Tarzana | 18756 Erwin St. | Tarzana | CA | 91335 | IP | LA | 6.88 | 6.88 |
| 33 | C Spot Nurseries, Inc. | Dixon Suzuki | 7330007906 7330008902 7330009901 7330009904 7406026913 7330009909 7330009910 7330009908 7330009907 7330009905 7330009903 7330009911 | 321 W. Sepulveda Blvd | Carson | 321 W Sepulveda Blvd. | Carson | CA | 90745 | C | D | 32.00 | 18.50 |
| 150 | Cama Wholesale Nursery | Richard Wilson | 8617001029 | 1025 N. Todd Ave. | Azusa | 1025 N Todd Avenue | Azusa | CA | 91702 | C | SG | 26.00 | 15.30 |
| 34 | Corey Nursery Co. | Jeff Corey | 8307002032 | 1650 Monte Vista Avenue | Claremont | P. O. Box 609 | Claremont | CA | 91711 | GO | SA | 6.80 | 3.00 |
| 35 | Cyclamen Growers Inc.(dba C Grows) | Tomoko Copon | 2530003017 2530003018 | 11545 Kagel Canyon St | Sylmar | 11545 Kagel Canyon St. | Sylmar | CA | 91342 | GO | LA | 3.54 | 2.60 |
| 82 | Damas Nursery | Julian Damas / Yuniva Pierce | 6351036800 6351036801 6351036802 6351036803 6351036804 6351036805 | 6265 E. Hereford Dr. | E. Los Angeles | 8210 Passons Blvd | Pico Rivera | CA | 90660 | GO | LA | 7.00 | 5.00 |
| 400 | Dan Needham Nursery | Dan Needham | IP | 11617 Dehougne St. | Lakewood | 11617 Dehougne St. | Lakewood | CA | | IP | IP | | |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Watershed | ACREAGE | |
|-------|--------------------------------|-------------------------------------|--|--|------------------|-----------------------------|----------------------|-------|-------|-----------|-----------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 340 | David's Nursery | David Martinez | 7315037271 | 909 E. Sepulveda Blvd. | Carson 90745 | 503 Pacific St. | Carson | CA | 90745 | IP | D | 3.10 | 3.10 |
| 398 | David Garcia Nursery | David Garcia | IP | 28367 San Canyon Rd. Spc 66 | Canyon Country | 28367 San Canyon Rd. Spc 66 | Canyon Country | CA | 91387 | IP | IP | 0.35 | 0.35 |
| 339 | Daniel Velazquez Nursery | Daniel Velazquez | 2666003901 | 11263 Woodley Ave. | Granada Hills | 11208 Degarmo Ave. | Pacoima | CA | 91331 | IP | LA | 1.64 | 1.64 |
| 341 | Eden Nursery | Trinidad Alcaraz | | 11600 Berendo Ave. | Gardena | 11612 Culver Blvd. | Los Angeles | CA | 90066 | IP | D | 1.40 | 1.40 |
| 342 | El Bajio Nursery | Benancio Queme | 2642022902 2625025900 | 13760 Sunburst St. Areleta | Arleta | 9314 Woodman Ave. | Arleta | CA | 91331 | IP | LA | 1.64 | 1.64 |
| 343 | El Castillo Nursery | Juan Aguilar | 6119006900 | 555 W. 146th St. | Gardena | 8009 Rose St. | Paramount | CA | 90723 | IP | D | 1.55 | 1.55 |
| 360 | El Dorado Nursery | Eugenia Torres | IP | Southwest of San Fernando Rd and North East of Telfair Ave. | San Fernando | PO Box 16926 | North Hollywood | CA | 91615 | IP | LA | 1.96 | 1.96 |
| 202 | El Nativo Growers, Inc. | James Campbell | 8533010909 8619002903 8533012908 | 200 S. Peckham | Azusa | 200 South Peckham Rd. | Azusa | CA | 91702 | GO | SG | 9.00 | 7.00 |
| 246 | Elliott Dolin | Elliott Dolin | 4467018045 | 5970 Cavalleri Rd | Malibu | 5970 Cavalleri Rd | Malibu | CA | 90265 | V | SM | 1.80 | 0.50 |
| 344 | Environmental Arts | Peter Lee | IP | North Side of 152nd St. | Gardena | PO Box 157 | Palos Verdes Estates | CA | 90247 | IP | D | 1.10 | 1.10 |
| 41 | Esequiel Nursery | Esequiel Hernandez/ Perla Hernandez | 6222005273 | 9000 Atlantic Ave | South Gate | 9000 Atlantic Ave. | South Gate | CA | 90280 | GO | LA | 2.5 | 1.50 |
| 146 | Estanfor Nursery | Rafael Rangel | 6134039270 | 1130 Stanford Ave | Compton | 1017 E. 150th Street | Compton | CA | 90220 | GO | D | 1.90 | 1.25 |
| 345 | Exotic Garden Nursery | Jimmy King | 2127021900 | 18801 Victory Blvd. | Reseda | 18801 Victory Blvd. | Reseda | CA | 91335 | IP | LA | 2.35 | 2.35 |
| 346 | F&A Nursery | Francisco Garcia | 7162014270 | 8650 Artesia Blvd. | Bellflower 90706 | 13213 Curtis and King Rd. | Norwalk | CA | 90650 | IP | LA | 1.32 | 1.32 |
| 349 | Francisco Garcia Nursery | Francisco Garcia | 6369003273 6369005900 | East of Crider Ave, between Washington Blvd and the railroad tracks, Pico Rivera | Norwalk | 13213 Curtis and King Rd. | Norwalk | CA | 90650 | IP | LA | 2.40 | 2.40 |
| 46 | F K Nursery, Inc. | Eric Kageyama | 4261037001 4261037005 4261037006 4261037007 4261037004 4261037008 | 2027 Colby Ave | Los Angeles | 2027 Colby Avenue | Los Angeles | CA | 90025 | GO | SM | 1.46 | 0.92 |
| 281 | Fairgrove Nursery | Reuben Martinez / Liz Martinez | 8471002804 8471002805 | 14855 Fairgrove Ave | La Puente | 14826 Fairgrove Ave | La Puente | CA | 91744 | GO | SG | 2.50 | 2.00 |
| 42 | Fausto's Nursery | Fausto Garcia / Eduardo Garcia | 7165020270 7165020800 | 5759 Allington St | Lakewood | 15317 McRae St. | Norwalk | CA | 90650 | GO | SG | 5.00 | 4.00 |
| 348 | Felix Garcia Nursery | Felix Garcia | 2310023901 | West of Morella Ave between Arminta St. and Stagg St. Los Angeles | Los Angeles | 1314 S. Cliveden Ave. | Compton | CA | 90020 | IP | LA | 1.68 | 1.68 |
| 347 | Four Seasons Wholesale Nursery | Dan LaFleur | 2763021900 2770001900 | 18840 Nordhoff St. | Northridge | 1880 Sinaloa Rd. | Simi Valley | CA | 93065 | IP | LA | 12.75 | 12.75 |
| 247 | Fuku Bonsai Nursery | Juan Duran | 6121003902 6121002901 | 560 W. 168th St. | Gardena | 11862 Balboa Blvd, PMB 164 | Grenada Hills | CA | 91344 | GO | D | 2.20 | 1.75 |
| 282 | Garden View Inc. | Julie Meahl | 8535020902 8535020801 8535020800 | 12901 Lower Azusa Rd | Irwindale | 114 E. Railroad Ave | Monrovia | CA | 91016 | GO | IP | 10.00 | 5.00 |
| 283 | Gardena Hills Nursery | Gilberto Lopez | 6089023282 | 12597 S Budlong Ave | Los Angeles | 2579 E. 219 St. | Long Beach | CA | 90810 | GO | IP | 1.75 | 1.25 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Waters hed | ACREAGE | |
|-------|--|-------------------|--|---|-----------------|------------------------------------|-----------------|-------|-------|-----------|------------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 94 | Gardena Nursery & Landscape Maintenance | Janet Mercado | 6121004901 | 551 W. 168th Street | Gardena | 551 W. 168th St. | Gardena | CA | 90248 | GO | D | 1.60 | 1.60 |
| 300 | Garibaldo's Nursery | Filemon Garibaldo | 7160003801 7160003800 7162007800 7162007801 | 8834 Rose St. | Bellflower | 8834 Rose St. | Bellflower | CA | 90706 | GO | LA | 1.80 | 1 |
| 350 | Gil Hernandez Nursery | Gil Hernandez | 6115039270 | South of El Segundo Blvd and West of Vermont St, Gardena | Gardena | 10607 San Antonio Ave. | South Gate | CA | 90280 | IP | D | 2.60 | 2.6 |
| 266 | Girasol Nursery | Angela Montoya | 6373016270 6373017272 6373021270 6373016906 5272031274 5272032271 5272005271 5272005273 | 8555 Spruce St | Pico Rivera | PO Box 6862 | Pico Rivera | CA | 90661 | GO | LA | 9.00 | 2.50 |
| 110 | Glendora Gardens | Melina Serrandino | 8641001274 8641001273 | 1135 S Grand Avenue | Glendora | 1132 S. Grand Avenue | Glendora | CA | 91740 | M | SG | 4.36 | 3.75 |
| 207 | Golden Oak Ranch | Steve Sligh | 2848010020 | 19802 Placerita Canyon Rd | Newhall | 19802 Placerita Canyon Rd | Newhall | CA | 91321 | M | SC | 890.00 | 200.00 |
| 351 | Gomez Calderon Nursery | Gomez Calderon | 6234011274 | South of Imperial Hwy and North Gardendale St. | South Gate | 9956 Downey and Sanford Bridge Rd. | Downey | CA | 90240 | IP | LA | 3.80 | 3.80 |
| 180 | Gomez Growers (United Plant Growers/Gomez Growers) | Jose Gomez | 7311013800 7311017800 | 3698 Caspian Avenue | Long Beach | 3698 Caspian Avenue | Long Beach | CA | 90810 | C | LA | 8.10 | 7.30 |
| 296 | Gomez Growers (United Plant Growers/Gomez Growers) | Jose Gomez | 7048015801 7048015802 | 5150 Knoxville Ave | Lakewood | 3698 Caspian Avenue | Long Beach | CA | 90810 | C | SG | 3.50 | 2.00 |
| 352 | Grace Farms | Myong H. Koches | 7404003278 | Intersection of Bonita St. and E. Pacific St. | Carson | 912 W. 11th St. #1 | San Pedro | CA | 90731 | IP | D | 0.89 | 0.89 |
| 353 | Grace Farms | Yung L. Lee | 7404004273 | Realty St. and Delores Dr. (intersecting Wilmington Ave.) | Carson | 912 W. 11th St. #1 | San Pedro | CA | 90731 | IP | D | 1.62 | 1.62 |
| 354 | Green Effects Inc. | IP | 2321004901 | North of Vose St. between Radford Ave. and Lankershim Blvd. | Los Angeles | 4248 Hilburn Ct. | Moorepark | CA | 93021 | IP | LA | 4.10 | 4.10 |
| 355 | Green House Nurseries, Inc. | Mark Whitten | 2642021900 | 9400 Canterbury Ave. | Arleta | 9400 Canterbury Ave. | Arleta | CA | 91331 | IP | LA | 3.48 | 3.48 |
| 143 | Green Landscape Nursery | Richard Green | 2833001087 2833004097 | 22216 1/2 Placerita Canyon Rd | Santa Clarita | 26191 Bouquet Canyon Rd. | Saugus | CA | 91350 | GO | SC | 4.50 | 4.00 |
| 144 | Green Landscape Nursery | Richard Green | 2809003270 | Rosedel Street | Saugus | 26191 Bouquet Canyon Rd. | Saugus | CA | 91350 | GO | SC | 4.00 | 2.00 |
| 44 | Green Leaf Nursery | Fermin Gutierrez | 8177001802 8177001801 8177001800 8177001805 8177001804 | 10490 Washington Blvd | Whittier | PO Box 2215 | Pico Rivera | CA | 90660 | GO | LA | 5.20 | 3.00 |
| 356 | Green Set, Inc. | Dan Needham | 2320016903 | 11520 Vanowen St. | North Hollywood | 11617 Dehougne St. | North Hollywood | CA | 91605 | IP | LA | 0.90 | 0.90 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Watershed | ACREAGE | |
|-------|--|---------------------|--|--|-----------------|--------------------------|------------------|-------|-------|-----------|-----------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 357 | Green Set, Inc. | Dan Needham | 2320017901 | 6732 Camellia Ave. | North Hollywood | 11617 Dehougne St. | North Hollywood | CA | 91605 | IP | LA | 2.00 | 2.00 |
| 358 | Green Set, Inc. | Dan Needham | 2320009902 2320006907 | 11617 Dehougne St. | North Hollywood | 11617 Dehougne St. | North Hollywood | CA | 91605 | IP | LA | 2.00 | 2.00 |
| 361 | Green Spot Nursery | Hector Hernandez | 2307008900 2307007900 | West of Laurel Canyon Blvd, between Saticoy and Stagg St. | Los Angeles | PO Box 16926 | North Hollywood | CA | 91615 | IP | LA | 4.13 | 4.13 |
| 60 | Green Thumb Nursery | Frank Soriano | 2012022012 2012022015 2012022011 2012022010 2012022014 2012022007 | 7659 Topanga Canyon Blvd | Canoga Park | 7659 Topanga Cyn Blvd | Canoga Park | CA | 91305 | GO | LA | 19 | 10.00 |
| 310 | Green Touch Nursery | Oscar Vargas | IP | 202 S. Mayo Ave. | Compton | 202 S. Mayo Ave. | Compton | CA | 90221 | GO | IP | 5.00 | 3.00 |
| 250 | Greene - Lania Vineyard | Jeff Greene | 4387028008 | 9505 Lania Ln. | Beverly Hills | 95 N. County Rd. | Palm Beach | FL | 33480 | V | SM | 5.00 | 3.00 |
| 359 | Growing Nursery / La Escondida Nursery | Antonio Ayon | 6236001270 | East of the LA River, between Century Ave. and the 105 Fwy | Paramount | 7306 Walnut Ave. | Paramount | CA | 90723 | IP | LA | 3.84 | 3.84 |
| 64 | H & H Nursery | Robert Reyes | 7168033800 7168033801 7168033274 7168033289 7168033285 | 6220 Lakewood Boulevard | Lakewood | 6220 Lakewood Blvd. | Lakewood | CA | 90712 | M | SG | 5.50 | 2.50 |
| 307 | Hana Star Farms, Inc | Hidehiko Kasahara | 8174013800 8174004800 | 6509 Pioneer Blvd | Whittier | 20646 Markham St. | Perris | CA | 92570 | R | IP | 5.90 | 2.80 |
| 65 | Hawthorne Nursery, Inc. | Kei Nakai | 4041013015 4041013016 4041013017 4041013018 4041013019 4041013014 4041013013 4042031010 4042031009 4042031008 4042031007 4042031006 4042031005 | 4519 W. El Segundo Bl | Hawthorne | 4519 W. El Segundo Blvd. | Hawthorne | CA | 90250 | GO | D | 2.87 | 2.50 |
| 62 | Hernandez Nursery | Eric Hernandez | 5047014902 | 5501 Rodeo Rd | Los Angeles | 5501 Rodeo Rd | Los Angeles | CA | 90016 | GO | SM | 3.00 | 2.70 |
| 210 | Hevadu | Megan Cunha | 4469021032 | 6415 Busch Drive | Malibu | 6415 Busch Drive | Malibu | CA | 90265 | V | LA | 8.00 | 2.75 |
| 66 | Hill Grove Nursery | Raul Mejia | 5266018801 5266017802 5266017800 5262028800 5263029800 | 450 West Almora | Monterey Park | PO Box 92966 | City of Industry | CA | 91715 | GO | IP | 3.50 | 2.00 |
| 284 | House of Bonsai | Victoria Lee | 7048012800 7048012801 7048012802 | 5214 Palo Verde Avenue | Lakewood | 5214 Palo Verde Avenue | Lakewood | CA | 90713 | GO | IP | 5.00 | 3.00 |
| 68 | Hoyt Family Vineyards | Carol & Steven Hoyt | 4467018025 | 5929 Kanan Dume Rd | Malibu | 5929 Kanan Dume Road | Malibu | CA | 90265 | V | SM | 1.50 | 0.80 |
| 69 | Humedo Nursery | Martin Torres | 6139004271 6139004273 | 860 East Redondo Beach Boulevard | Compton | P.O. Box 40299 | Long Beach | CA | 90804 | GO | D | 2.00 | 1.39 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Waters hed | ACREAGE | |
|-------|-----------------------------------|---------------------------------|--|---|-----------------|----------------------|-----------------|-------|-------|-----------|------------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 70 | Humedo Nursery | Martin Torres | 6283024801 | 10040 Imperial Highway | Downey | P.O. Box 40299 | Long Beach | CA | 90804 | GO | SG | 3.00 | 2.20 |
| 186 | I.T. Nursery Inc | Wayne Tagawa | 6125014003 | 256 East Alondra | Gardena | 256 E Alondra Blvd | Gardena | CA | 90248 | GO | D | 2.76 | 1.75 |
| 363 | International Palm Growers | Henry Cespedes | 2642021900 | 9312 Canterbury Ave. | Arleta | PO Box 4218 | Panorama City | CA | 91331 | IP | LA | 3.40 | 3.40 |
| 73 | International Plant Growers, Inc. | Peter Landowski / Jeff Nakasone | 7409020009 | 24500 Vermont Ave | Harbor City | 24500 Vermont Avenue | Harbor City | CA | 90710 | C | D | 6 | 5.00 |
| 364 | Isaac Ortega Nursery | Isaac Ortega | IP | 11925 Bromont Ave. | Pacoima | 12032 Wimberly Ave. | Sylmar | CA | 91342 | IP | LA | 2.2 | 2.20 |
| 365 | Isaias Gonzalez Nursery | Isaias Gonzalez | 6310027274 | East of Alcoa Avenue, between Slauson and Randolph | Vernon | 1810 Cogswell Rd. | South El Monte | CA | 91733 | IP | LA | 1.87 | 1.87 |
| 267 | Jackson Shrub Supply, Inc. | Gary Jackson | 2320001902 2320008904 2320009902 2320006907 2320005904 2320005903 | 11505 Vanowen St | North Hollywood | 11505 Vanowen St | North Hollywood | CA | 91605 | GO | LA | 9.00 | 9.00 |
| 366 | James T. Jung Nursery | James T. Jung | 7404002278 | East of Bonita Ave, between Lincoln St and Pacific St, Carson | Carson | 6625 Montaire Pl. | La Palma | CA | 90623 | IP | D | 0.83 | 0.83 |
| 98 | Jauregui Nursery, LLC | Filiberto Jauregui | 7336009271 | 20300 Main | Carson | 4185 Paseo de Oro | Cypress | CA | 90630 | GO | D | 4.80 | 1.50 |
| 100 | Jauregui Nursery, LLC | Filiberto Jauregui | 6120025900 6120024900 6120026902 6120027901 | 551 West Alondra | Gardena | 4185 Paseo de Oro | Cypress | CA | 90630 | GO | D | 4.00 | 3.00 |
| 101 | Jauregui Nursery, LLC | Filiberto Jauregui | 7048021271 7061008270 7061008275 7061008276 | 6741 Del Amo | Lakewood | 4185 Paseo de Oro | Cypress | CA | 90630 | GO | SG | 3.10 | 2.00 |
| 367 | Javier's Nursery | Javier Hernandez | 7339018902 7339018271 7339018903 | 610 E. Carson Plaza Dr. | Carson | 337 E. 237th St. | Carson | CA | 90745 | IP | D | 5.76 | 5.76 |
| 368 | Jesus & Juan Munoz Nursery | Jesus Munoz | 2415013901 2415014900 2415015901 | East of Whitnall Hwy, between Oxnard St and Cahuenga Blvd | North Hollywood | 206 W. Maple St. #E | Glendale | CA | 91204 | IP | LA | 3.04 | 3.04 |
| 369 | Jesus Macias Gonzalez Nursery | Jesus Macias Gonzalez | 2538008900 | West of Sutter Ave, between Wicks and San Fernando Rd. | Los Angeles | 11064 Wicks St. | Sun Valley | CA | 91352 | IP | LA | 1.60 | 1.60 |
| 74 | Jorge's Nursery | Jorge Alcaraz | 7318003809 7318003808 7318003811 7318003807 | 100 E Greenleaf Blvd | Compton | 4867 Daisy Ave | Long Beach | CA | 90805 | GO | LA | 6.50 | 5.00 |
| 384 | Jose Munoz Nursery | Jose Munoz | 8115001907 8115001905 | Between the 60 and 605 Fwy | Whittier | 12318 Kathleen St. | Whittier | CA | 90601 | IP | LA | 4.00 | 4.00 |
| 370 | Jose Vasquez Nursery | Jose Vasquez | 2715012903 | East of Chimineas Ave, between Tribune St and Chatsworth St. | Los Angeles | PO Box 17714 | Encino | CA | 91416 | IP | LA | 5.00 | 5.00 |
| 371 | Juan Aguilar Nursery | Juan Aguilar | 6051002900 | 10718 S. Stanford Ave, Los Angeles | Los Angeles | 922 E. 42nd Pl. | Los Angeles | CA | 90011 | IP | LA | 1.00 | 1.00 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Watershed | ACREAGE | |
|-------|---|---------------------------|--|---|------------------|-----------------------------|-------------------|-------|-------|-----------|-----------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 325 | Juan Gregorio Aguirre Nursery | Juan Gregorio Aguirre | 6045019270 6045015271 6045015270 6045015272 6045015273 | North of 92nd St, between Fir Ave and Minder St. & North of 92nd St, between Miner St and Juniper St. | Los Angeles | 9806 Anzac Ave. | Los Angeles | CA | 90002 | IP | LA | 6.73 | 6.73 |
| 372 | Juan Otero/Junior's Nursery | Juan Otero/David Martinez | 2118001901 | 18836 Saticoy | Reseda | 6206 Burwood Ave. | Los Angeles | CA | 90042 | IP | LA | 1.78 | 1.78 |
| 373 | Juarez Nursery | Rolando E. Juarez | 8664019270 | 6375 Wheeler Ave. | La Verne | 8019 S. Hoover St. | Los Angeles | CA | 90044 | IP | SG | 1.30 | 1.30 |
| 375 | Julio Deluis Espinoza Nursery | Julio Deluis Espinoza | IP | East of Fairfax Ave, between Adams and Clyde Ave. | Los Angeles | 1452 S. Ridgley Dr. | Los Angeles 90016 | CA | IP | IP | LA | 1.88 | 1.88 |
| 374 | Junior's Nursery connected to Juan Otero's Nursery | David Martinez | 2156021903 | West of Yolanda Ave. between Hatteras and Miranda Ave. | Los Angeles | 240 Robinson Rd. | Pasadena | CA | 91104 | IP | LA | 1.08 | 1.08 |
| 268 | K. Yuge Nursery | Steve Yuge | 4066016054 | 2027 W 164th St | Torrance | 2027 W 164th St | Torrance | CA | 90504 | GH | D | 1.50 | 0.75 |
| 269 | K. Yuge Nursery | Steve Yuge | 6129004024 | 336 W Redondo Beach Blvd | Gardena | 2027 W 164th St | Torrance | CA | 90504 | GH | D | 2.00 | 1.50 |
| 285 | Kangaru Enterprises, LLC | Steven Rusack | 7480043020 | 1 El Rancho Escondido Rd. | Avalon | 1825 Ballard Canyon Rd. | Solvang | CA | 93463 | V | IP | 4.90 | 4.90 |
| 229 | Katharina Hahn Vineyard (Schetter Malibu) | Katharina Hahn/Jaime Page | 4467003023 | 5825 Murphy Way | Malibu | 5825 Murphy Way | Malibu | CA | 90265 | V | LA | 0.80 | 0.50 |
| 251 | Kenyon Landscape | Kenny Unger | 2615010901 | 14899 Chatsworth Dr. | North Hills | 9816 Burnet Ave | Woodland Hills | CA | 91343 | GO | LA | 2.00 | 1.50 |
| 91 | Kobata Growers, Inc. | Jack Mayesh | 4096005800 4096005801 4096005802 | 17622 Van Ness Avenue | Torrance | 17622 Van Ness | Torrance | CA | 90504 | GO | D | 8.00 | 6.50 |
| 92 | Kobata Growers, Inc. | Jack Mayesh | 4095001800 4095001802 | 17629 Van Ness Avenue | Torrance | 17622 Van Ness | Torrance | CA | 90504 | C | D | 6.50 | 6.50 |
| 311 | LA Sanchez Nursery | Eusebio Sanchez | 8294030800 | 16525 Circle Hill Ln | Hacienda Heights | 11159 1/2 Kauffman St. | El Monte | CA | 91731 | GO | SG | 1.50 | 1.00 |
| 376 | La Cienega Nursery | Cirilo Gutierrez | IP | 8511 Sherwood Dr. | West Hollywood | PO Box 950825 | Mission Hills | CA | 91395 | IP | LA | 3.70 | 3.70 |
| 228 | La Vina Gomez de Malibu | Bob Tobias / David Gomez | 2058014014 | 32720 Mulholland Hwy | Malibu | P.O. Box 577 | Agoura Hills | CA | 91376 | V | LA | 5.00 | 0.90 |
| 212 | Lam Farms | Nhi Lam | 6268017270 6268017274 6268017275 | 8600 Jefferson St. | Paramount | 6319 California Ave | Long Beach | CA | 90805 | R | LA | 3.00 | 1.00 |
| 253 | Landscape Warehouse Nursery & Supply | Jose Robles/Edaena Pano | 8610001800 | 2800 Royal Oaks Dr | Duarte | 1673 E. Walnut St. | Pasadena | CA | 91106 | GO | SG | 2.00 | 1.25 |
| 286 | LB Palm Growers/Moon Valley | Cipriano Martinez | 7107004800 | 17020 Downey Rd. | Bellflower | 19820 N. 7th St., Suite 260 | Phoenix | AZ | 85024 | GO | LA | 4.50 | 4.00 |
| 105 | Live Art Landscapes, Inc. | Larry Tabeling | 2763001904 2763030900 | 18809 Plummer St | Northridge | 3351 La Cienega Place | Los Angeles | CA | 90016 | GH | LA | 3.66 | 1.80 |
| 121 | Lloyd's Nursery / Nakayama Nursery Inc. | Lloyd Nakayama | 6115013007 6115013008 6115013009 6115013010 6115013011 | 1341 W. 141st Street | Gardena | 1341 W 141st Street | Gardena | CA | 90247 | GO | D | 0.75 | 0.75 |
| 106 | Lomita Plant Growers | Mercedes Sanabria | 7404030900 | 835 E Lomita Blvd | Wilmington | 835 East Lomita Blvd. | Wilmington | CA | 90744 | GO | D | 3.02 | 2.50 |
| 377 | Lopez Nursery | Francisco Lopez | 2631011900 | 11763 Rialto St. | Sun Valley | 8513 Tilden Ave. | Panorama City | CA | 91402 | IP | LA | 1.51 | 1.51 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Waters hed | ACREAGE | |
|-------|-------------------------------|----------------------------|--|--|-----------------|-------------------------------|------------------|-------|-------|-----------|------------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 331 | Lorenzo Sanchez Nursery | Lorenzo Sanchez | 2642001900 | 14001 Garber St. | Arleta | 14001 Garber St. | Arleta | CA | 91331 | IP | LA | 0.81 | 0.81 |
| 378 | Los Pinos Nursery | Rodolfo Reynoso | 2308024900 | 7860 Whisett Ave | North Hollywood | 7860 Whisett Ave. | North Hollywood | CA | 91605 | IP | LA | 3.15 | 3.15 |
| 270 | Lucky Plants | Javier Lopez | 7404001278 | West of Bonita St. Between Sepulveda and Lincoln | Carson | 902 Sepulveda Blvd | Carson | CA | 90745 | GO | D | 1.00 | 0.82 |
| 37 | Lucky Plants Nursery | Steven Chu | 4085026800 | 17715 Amie Ave. | Torrance | 1062 Aviation Blvd. | Hermosa Beach | CA | 90254 | IP | D | 3.75 | 2.50 |
| 321 | Lucky Plants Nursery | Steven Chu | IP | 14515 S. Raymond Ave. Gardena, CA 90247 | Gardena | 1062 Aviation Blvd. | Hermosa Beach | CA | 90254 | IP | D | 3.00 | 2.50 |
| 379 | Lynne Vinkovic Nursery | Lynne Vinkovic | IP | 1217 Oak Grove Dr. | Los Angeles | 1217 Oak Grove Dr. | Los Angeles | CA | 90041 | IP | LA | 0.28 | 0.28 |
| 380 | Macias Nursery | Ignacio Macias | 2604041903 | 15594 Bledsoe St. | Sylmar | 14506 Bledsoe St. | Sylmar | CA | 91342 | IP | LA | 2.24 | 2.24 |
| 287 | Maggie's Farm | Nate Pietso / Casey Kramer | 2055001032 | 6500 Chesboro Rd | Agoura Hillas | 918 11th St #9 | Santa Monica | CA | 90403 | R | IP | 4.00 | 4.00 |
| 113 | Magic Growers, Inc. | Bob & Leilani Underwood | 5751022801 5860013800 5857035901 | 2795 Eaton Canyon Drive | Pasadena | 2795 Eaton Canyon Drive | Pasadena | CA | 91107 | GO | LA | 8.00 | 8.00 |
| 288 | Malibu Organic Lemon | Mike Zacha | 4472010023 | 1872 Encinal Canyon | Malibu | 1700 Decker Canyon Rd | Malibu | CA | 90265 | O | LA | 220.00 | 15.00 |
| 235 | Malibu Rocky Oaks Vineyard | Howard Leight | 2058017025 | 340 Kanan Road | Malibu | 3200 Airport Ave. Suite 16 | Santa Monica | CA | 90405 | V | LA | 35.00 | 7.00 |
| 254 | Manassero Farms | Dan Manassero | 7016007906 | North East corner of 166th & Studebaker Rd. | Cerritos | 9925 Via La Granja | Yorba Linda | CA | 92886 | R | SG | 4.00 | 3.00 |
| 108 | Marcelino Contreras | Marcelino Contreras | 7326019800 | Vera and E 213th St. | Carson | 1702 E 213th St. | Carson | CA | 90745 | R | D | 1.00 | 1.00 |
| 114 | Mariposa Garden | Ron Hill | 7049014904 | 6664 South Street | Lakewood | 6664 South Street | Lakewood | CA | 90713 | GO | SG | 4.00 | 3.68 |
| 312 | Martinez Nursery | Angel Martinez | 7165019803 | 5761 Ashworth St | Lakewood | PO Box 1665 | Bellflower | CA | 90707 | GO | SG | 2.00 | 1.50 |
| 289 | MB Landscaping and Nursery | Maria Martinez | 7336004010 | 20300 S. Figueroa St | Carson | 20300 S. Figueroa St. | Carson | CA | 90745 | GO | D | 2.50 | 1.50 |
| 290 | MB Landscaping and Nursery | Maria Martinez | 6126009802 | 201 E Walnut Street | Carson | 20300 S. Figueroa St. | Carson | CA | 90745 | GO | D | 6.20 | 5.00 |
| 292 | MB Landscaping and Nursery | Maria Martinez | 6134008270 6134001271 6134001270 | 700 135th St. | Los Angeles | 20300 S. Figueroa St. | Carson | CA | 90745 | GO | D | 6.20 | 4.00 |
| 271 | Melhill Vineyard | Tish Lehew / Jeff Lotman | 4432011045 | 1805 Melhill Way | Los Angeles | 1805 Melhill Way | Los Angeles | CA | 90049 | V | SM | 0.30 | 0.30 |
| 112 | Mezcala Nursery | Sergio Vargas | 7116001800 | 6901 Orange Ave | Long Beach | 7016 Sherman Way | Bell | CA | 90201 | GO | LA | 2.00 | 2.00 |
| 40 | Mikamo Nursery | Edith Mikamo | 7344007038 7344007039 | 1029 W. 223 Street | Torrance | 1029 W. 223 Rd St. | Torrance | CA | 90502 | F | D | 1.00 | 0.75 |
| 306 | Mimosa Nursery LA | Colette Guyenne | 6351035804 6351035803 6351035807 | 6270 Allston Street | Los Angeles | 6270 Allston Street | Los Angeles | CA | 90022 | GO | LA | 3.30 | 2.20 |
| 383 | Miyako Bonsai Nursery | Kenichiro Kawaguchi | 6132006900 | 552 W. 140th St. | Gardena | 552 W. 140th St. | Gardena | CA | 90248 | IP | D | 2.18 | 2.18 |
| 55 | Moneta Nursery, Inc. | Gary Ishii | 6115019043 6115019044 6115019045 6115019042 | 13633 South Vermont Avenue | Gardena | 13633 S. Vermont Avenue | Gardena | CA | 90247 | M | D | 4.75 | 3.00 |
| 199 | Moraga Vineyards | Scott Rich | 4368005025 4368006007 4368024020 4368024025 | 1070 Moraga Dr. | Los Angeles | 650 N. Sepulveda Blvd | Los Angeles | CA | 90049 | V | LA | 8.00 | 7.00 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Watershed | ACREAGE | |
|-------|---|--------------------------------|--|--|-------------------|-------------------------|------------------|-------|-------|-----------|-----------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 61 | My Hoa Farm | Han Luong | 7165012282 7165013274 | 5760 Allington Street | Lakewood | 5726 Candor St. | Lakewood | CA | 90713 | R | SG | 5.25 | 2.50 |
| 293 | N.K. Nursery | Kaz Kitajima | 8242016810 | 780 S. Stimson Ave | City of Industry | 780 S. Stimson Ave | City of Industry | CA | 91745 | GO | IP | 2.00 | 1.00 |
| 385 | New View Landscape, Inc./Green View Nursery | Michael Stell | 2763002900 2763030901 2763001905 | 18590 Lassen St. | Northridge | 24860 Calabasas Rd. | Calabasas | CA | 91302 | IP | LA | 9.31 | 9.31 |
| 386 | Green View Nursery/New View Landscape, Inc. | Michael Stell | 2731012901 | West of Lindley between San Jose and Devonshire | Northridge | 17566 Chase St. | Northridge | CA | 91325 | IP | LA | 5.10 | 5.10 |
| 53 | New West Growers, Inc. | Grace Hernandez | 7318004803 | 1601 S. Santa Fe Ave | Compton | 1413 Kenneth Rd. #227 | Glendale | CA | 91201 | GO | LA | 3.50 | 1.70 |
| 54 | New West Growers, Inc. | Grace Hernandez | na | 110 West Greenleaf | Compton | 1413 Kenneth Rd. #227 | Glendale | CA | 91201 | GO | LA | 3.00 | 1.00 |
| 117 | Nick's Nursery | Nicolas Alvarado | 2310006900 2310007900 | 11800 Roscoe Blvd. | Sun Valley | 11800 Roscoe Blvd | Sun Valley | CA | 91352 | GO | LA | 3.25 | 2.25 |
| 397 | Nick Williams Nursery | Nick Williams | 2161004907 | West of Yoland Ave. between Linnet St. and Wells Dr. | Los Angeles | 1061 Meadows End Dr. | Calabasas | CA | 91302 | IP | LA | 0.69 | 0.69 |
| 125 | Norman's Nursery, Inc. | Nancy Norman | 5387037800 5388036800 5388036801 5388038802 5388038803 5388038800 5388038801 | 1150 E Broadway | San Gabriel | 8665 E. Duarte Rd. | San Gabriel | CA | 91775 | GO | LA | 10.40 | 7.00 |
| 129 | Norman's Nursery, Inc. | Nancy Norman | 5376008800 5376008801 5376008802 | 8633 Duarte Rd North | San Gabriel | 8665 E. Duarte Rd. | San Gabriel | CA | 91775 | GO | LA | 12.49 | 9.73 |
| 131 | Norman's Nursery, Inc. | Nancy Norman | 5282031901 5282031900 5282028904 5282028902 5282028903 | 1601 Loma Ave | El Monte | 8665 E. Duarte Rd. | San Gabriel | CA | 91775 | GO | SG | 9.13 | 7.30 |
| 132 | Norman's Nursery, Inc. | Nancy Norman | 5381009815 5381009814 5381009816 5381009817 5381015805 | 8624 Duarte Rd South | San Gabriel | 8665 E. Duarte Rd. | San Gabriel | CA | 91775 | GO | LA | 8.63 | 6.50 |
| 233 | Nuccio's Nursery, Inc. | Julius, Tom & Jim Nuccio | 5830018003 | 3555 Chaney Trail | Altadena | 3555 Chaney Trail | Altadena | CA | 91001 | GO | LA | 80.00 | 5.00 |
| 135 | Okada Nursery, Inc. | Herb Okada | 7167034270 7167034801 7167034800 7167033270 | 6239 Bellflower Blvd | Lakewood | 18715 S Western Ave | Gardena | CA | 90248 | GO | SG | 8.00 | 6.00 |
| 362 | Oscar Hernandez Nursery | Oscar Hernandez | 7165020270 | East of Eastbrook Ave. between Ashworth St. and Allington St. Lakewood | Lakewood | 10639 Lakefront Dr. | Norwalk | CA | 90650 | IP | SG | 1.84 | 1.84 |
| 313 | Pacific View Nursery | Erik Munoz | 4467021002 4467021001 | 29081 Pacific Coast Hwy | Malibu | 29081 Pacific Coast Hwy | Malibu | CA | 90265 | GO | SM | 4.76 | 4.00 |
| 272 | Paramount Landscape | Cecilio Cabral / Magaly Cabral | 2531016801 2530006800 | 11944 Terra Bella St | Lake View Terrace | 9848 Ramona Ave | North Hills | CA | 91343 | GO | LA | 7.00 | 5.00 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Watershed | ACREAGE | |
|-------|----------------------------------|------------------------------------|--|--|-----------------|--|-----------------|-------|-------|-----------|-----------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 387 | Pascual Aguilar Nursery | Pascual Aguilar | IP | West of Stanford Ave, between Alondra and Flower Ave. | Los Angeles | 149 E. 78th St. | Los Angeles | CA | 90003 | IP | LA | 1.18 | 1.18 |
| 141 | Performance Nursery, Inc. | Tom Lucas | 4151012800 4151013800 | 2501 Manhattan Beach Boulevard | Redondo Beach | 6001 E Los Angeles Avenue | Somis | CA | 93066 | GO | D | 4.78 | 3.00 |
| 136 | Peter's Garden Center, Inc. | Peter Serrato / Teresa Serrato | 7502006802 7502006803 7502004806 7502004807 7502001803 7502001804 7502001802 | 814 N. Pacific Coast Hwy | Redondo Beach | 814 N. Pacific Coast Hwy. | Redondo Beach | CA | 90277 | M | SM | 2.50 | 1.00 |
| 273 | Pierce College | Paul Nieman | 2149007902 | 6201 Winnetka Ave | Woodland Hills | 6201 Winnetka Ave | Woodland Hills | CA | 91371 | M | LA | 430.00 | 200.00 |
| 388 | Plantasia, Inc. | Alex Colovic | 7107002900 7107002272 7107002271 7107001271 7107001270 | West of Lakewood Blvd., between Alondra and Flower Ave. | IP | 2550 Via Tejon Suite 3F | Palos Verdes | CA | 90274 | IP | IP | 5.57 | 5.57 |
| 314 | Plascencia Nursery | Maria Silva | 8551011270 8551011271 8556099272 | 12920 Ramona Blvd | Baldwin Park | PO Box 1952 | Temple City | CA | 91760 | GO | SG | 5.00 | 4.00 |
| 294 | Premium Trees, LLC / Moon Valley | Cipriano Martinez | 5268005801 5268005802 | 2600 W Lincoln Ave | Montebello | 19820 N. 7th St., Suite 260 | Phoenix | AZ | 85024 | GO | SG | 16.50 | 7.00 |
| 256 | Pro Growers, Inc. | Sal Mora/Juan Perez | 6230023801 6230023800 | 8303 S. Scout Ave | Bell Gardens | 8303 S. Scout Ave | Bell Gardens | CA | 90201 | GO | LA | 13.00 | 8.00 |
| 391 | RJ's Demolition and Disposal | IP | 2604002903 | West of San Fernando Rd. between Telfair and Roxford St. | Los Angeles | 1213 S. Fir Ave. | Inglewood | CA | 90301 | IP | LA | 5.24 | 5.24 |
| 151 | Rainforest Flora Inc. | Jerry Robinson | 7522006800 | 19121 Hawthorne Blvd | Torrance | 19121 Hawthorne Blvd. | Torrance | CA | 90503 | GH | D | 5.00 | 1.00 |
| 389 | Ramirez Nursery | Guillermo Ramirez | 6132005900 | 570 W. 135th St. | Gardena | 570 W. 135th St. | Gardena | CA | 90248 | IP | D | 2.96 | 2.96 |
| 302 | Ramirez Strawberry Ranch | Rigoberto Ramirez | 7317015805 7317015806 | 3511 Santa Fe Ave. | Long Beach | 2710 Delta Ave | Long Beach | CA | 90810 | R | IP | 2.50 | 2.00 |
| 152 | Rancho Escondido Vineyard | George Rosenthal | 4464027018 4464027013 | Newton Cyn & Kanan Rd | Malibu | Raleigh Enterprises, 100 Wilshire Blvd., 8th Floor | Santa Monica | CA | 90401 | V | SM | 25.00 | 25.00 |
| 230 | Rancho Mar LLC | Bob Tobias | 4457004048 | 2800 Malibu Canyon Road | Malibu | 1250 4th Street | Santa Monica | CA | 90401 | M | LA | 40.00 | 5.00 |
| 381 | Raul Martinez Nursery | Raul Martinez | 7339008913 | 565 189 St. | Gardena | 565 189 St. | Gardena | CA | 90248 | IP | D | 1.00 | 1.00 |
| 322 | Reyes Winery | Robert Reyes | 3213016029 | 10262 Sierra Hwy | Santa Clarita | 1227 Buena Vista #C | Duarte | CA | 91010 | V | SC | 16.00 | 14.00 |
| 56 | Ricardo's Nursery | Ricardo Arrivillaga | 7116016802 7116016801 | 6850 Atlantic Ave | Long Beach | 6850 Atlantic Ave | Long Beach | CA | 90805 | GO | LA | 9.00 | 7.00 |
| 390 | Rio Verde Nursery | Antonio Garcia/Fidel Reyes | 6241001270 6241001271 | 14809 Downey Ave. | Paramount | 14809 Downey Ave. | Paramount | CA | 90723 | IP | LA | 3.70 | 3.70 |
| 154 | Rolling Hills Nursery | Esteban Villafana / Koji Shimohara | 7116001800 | 6944 Orange Ave | Long Beach | PO Box 789 | Paramount | CA | 90723 | GO | LA | 8.00 | 6.00 |
| 392 | Roscoe Nursery | Gustavo Ramirez | 2305003900 2305002018 2305001900 | 12741 Cantara St. North Hollywood, CA 91605 | North Hollywood | 12741 Cantara St. North Hollywood, CA 91605 | North Hollywood | CA | 91605 | IP | LA | 1.86 | 1.86 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Waters hed | ACREAGE | |
|-------|--|-------------------|--|-------------------------|-------------------|---|-------------|-------|-------|-----------|------------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 96 | Ruiz Nursery | Jose Ruiz | 7304024802 7304024801 7304024800 7304012803 7304012804 7304012805 7304012806 7304012807 7304012808 7304012809 7318006801 | 7045 N. Long Beach Blvd | Long Beach | 7045 N. Long Beach Blvd | Long Beach | CA | 90805 | GO | LA | 4.16 | 2.00 |
| 168 | S Y Nursery, Inc. | Patty Yasutake | 7055008800 | 19900 S Pioneer Blvd | Cerritos | 19900 S. Pioneer Blvd. | Cerritos | CA | 90703 | GO | SG | 6.00 | 4.75 |
| 237 | Saddlerock Ranch / The Semler Companies Malibu | Ronald H. Semler | 2058016008 2058016022 | 31727 Mulholland Hwy | Malibu | 32111 Mulholland Hwy | Malibu | CA | 90265 | M | LA | 90.00 | 38.00 |
| 158 | Sakaida Nursery, Inc. | Mike Gutierrez | 5381015802 5381015806 5381015807 5381015808 5381015809 | 8538-8601 Longden Ave | San Gabriel | 8626 E. Grand Ave. | Rosemead | CA | 91770 | GO | LA | 7.00 | 6.89 |
| 159 | Sakaida Nursery, Inc. | Mike Gutierrez | 5389005800 5389005803 | 8626 E Grand Ave | Rosemead | 8626 E. Grand Ave. | Rosemead | CA | 91770 | GO | LA | 4.50 | 4.00 |
| 160 | Sakaida Nursery, Inc. | Mike Gutierrez | 5381011011 | 6544 N. Vista Street | San Gabriel | 8626 E. Grand Ave. | Rosemead | CA | 91770 | GO | LA | 4.00 | 3.00 |
| 161 | Salco Growers | Frank Spina | 7165001270 7165001011 7165001271 7165001275 7165001272 7165019270 7165001801 7165001800 7165019800 7165019801 7165019805 7165019804 | 6236 Bellflower Rd | Lakewood | 6236 Bellflower Blvd | Lakewood | CA | 90713 | C | SG | 4.00 | 2.00 |
| 274 | SAM Trust- Amalfi Vineyard | Andrea Spencer | 4425005032 | 1515 Amalfi Dr | Pacific Palisades | Breslauer, Rutman and Anderson, 11400 Olympic Blvd, Ste 550 | Los Angeles | CA | 90064 | V | SM | 1.00 | 1.00 |
| 315 | San Antonio Nursery Corp | Rafael Macias | 2538002900 2538003900 2538021901 2538022901 2538023902 | 11753 Wicks St. | Sun Valley | 11753 Wicks St. | Sun Valley | CA | 91352 | GO | IP | 16.10 | 14.00 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Waters hed | ACREAGE | |
|-------|--------------------------------|---------------------------------|--|---|------------------|--------------------------------|--------------|-------|-------|-----------|------------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 164 | San Gabriel Nursery & Florist | Fred Yoshimura / Mary Swanton | 5373028024 5373028025 5373028026 5373028027 5373028028 5373028029 5373028036 5373028009 5373028010 5373028011 5373028012 5373028013 5373028014 5373028015 5373028016 5373028017 5373028018 5373028019 5373028020 5373028021 | 632 S San Gabriel Blvd | San Gabriel | 632 South San Gabriel Blvd. | San Gabriel | CA | 91776 | M | LA | 5.00 | 4.00 |
| 316 | Saticoy Nursery | Armando Orozco Torres | IP | IP | North Hollywood | 11321 Runnymede St. | Sun Valley | CA | 91352 | GO | LA | 5.00 | 4.00 |
| 399 | Saticoy Nursery | Armando Orozco Torres | 2307015900 2307015903 | West of Laurel Canyon Blvd. between Lull Ave. and Saticoy St. | Los Angeles | 11321 Runnymede St. | Sun Valley | CA | 91352 | IP | LA | 1.20 | 1.20 |
| 257 | Scarborough Farms | Ann Stein | 2068001003 | 23302 Mulholand Dr | Woodland Hills | PO Box 1267 | Oxnard | CA | 93032 | R | LA | 7.00 | 6.00 |
| 134 | Sempervirens Botanical Company | John Low | 4096001054 | 18715 S Western Ave | Gardena | 18715 S Western Ave | Gardena | CA | 90248 | C | D | 2.00 | 0.50 |
| 45 | Shima Nursery | Frank Tsushima / Roger Tsushima | 5389006807 | 8625 Grand Ave | Rosemead | 8625 E. Grand Ave | Rosemead | CA | 91770 | GO | LA | 2.90 | 1.30 |
| 258 | Shima Nursery | Frank Tsushima / Roger Tsushima | 5372020804 5372020801 | 8521 Valley Blvd. | Rosemead | 8625 E. Grand Ave | Rosemead | CA | 91770 | GO | LA | 7.80 | 5.00 |
| 259 | Shima Nursery | Frank Tsushima / Roger Tsushima | 5371010802 | 8524 E. Marshall | Rosemead | 8625 E. Grand Ave | Rosemead | CA | 91770 | GO | LA | 8.60 | 6.50 |
| 393 | Sienna Arborscape Co. | IP | IP | South of Big Tujunga Canyon Rd. and North of Mt. Gleason Ave. | Los Angeles | 3115 Foothill Blvd. Suite M140 | La Crescenta | CA | 91214 | IP | LA | 3.93 | 3.93 |
| 394 | Soto Nursery | IP | 6120023910 6120023908 | 600 W. Alondra Blvd. | Gardena 90248 | 1058 W. 204th St. | Torrance | CA | 90502 | IP | D | 2.02 | 2.02 |
| 57 | Specialized Growers | Reuben Valdez | 6385005800 6385005801 6385016800 6385016801 | 8406 Pico Vista Dr. | Pico Rivera | 8406 Pico Vista Dr. | Pico Rivera | CA | 90660 | GO | SG | 2.70 | 1.50 |
| 317 | Starline Nursery Company | David Mejia | 8558023800 8558023801 8558023802 | 1233 Vineland Ave | La Puente | PO Box 1000 | La Puente | CA | 91747 | GO | SG | 4.00 | 3.50 |
| 318 | Starline Nursery Company | David Mejia | IP | 16505 Colima Rd | Hacienda Heights | PO Box 1000 | La Puente | CA | 91747 | GO | SG | 2.50 | 2.00 |
| 142 | Sunflower Farms | Ron Akiyama | 4096005007 4096005800 | 17609 S. Western Ave. | Gardena | 17609 S Western Avenue | Gardena | CA | 90247 | F | D | 4.00 | 3.50 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Watershed | ACREAGE | |
|-------|-------------------------------|---|--|--|-----------------|-------------------------|-----------------|-------|-------|-----------|-----------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 319 | Sunshine Food & Nursery | Kevin Wong | 5288003801 5288003802 5288003800 | 8500 Dorothy St. | Rosemead | 8500 Dorothy St. | Rosemead | CA | 91770 | GO | SG | 6.50 | 5.00 |
| 395 | Tops Landscape Co. | Yun Kong | IP | 18809 Calvert St. | Reseda | 18809 Calvert St. | Reseda | CA | 91335 | IP | LA | 5.64 | 5.64 |
| 295 | Torrance Wholesale Nursery | Margaret Edelman | 4089016802 | 18901 Ermanita Ave | Torrance | 18901 Ermanita Ave. | Torrance | CA | 90504 | GO | D | 2.00 | 1.87 |
| 260 | Triunfo Canyon Vineyards | Laura Gilbard | 2063002092 | 3030 Triunfo Canyon Rd | Agoura | 3030 Triunfo Canyon Rd | Agoura | CA | 91301 | V | SM | 10.00 | 1.25 |
| 171 | T-Y Nursery, Inc. | Terry Yasutake | 7521012800 7521001802 7522006800 7520009801 | Between Firmona Ave. / N. Beryl St. | Torrance | 5221 Arvada Street | Torrance | CA | 90503 | GO | SM | 21.25 | 13.50 |
| 176 | T-Y Nursery, Inc. | Terry Yasutake | 7502012800 7502008804 7502008802 7502008805 7502008800 7502013800 | Between Flagler Ln. / N. Paulina Ave. | Redondo Beach | 5221 Arvada Street | Torrance | CA | 90503 | GO | SM | 12.00 | 7.50 |
| 178 | Ultra Greens Nursery | Michael Lentz | 2525001802 2525001801 2525001800 | 13102 Maclay Street | Sylmar | P O Box 922259 | Sylmar | CA | 91392 | GO | LA | 10.00 | 8.50 |
| 179 | Ultra Greens Nursery | Michael Lentz | 2504009800 | 14025 Polk Street | Sylmar | P O Box 922259 | Sylmar | CA | 91392 | GO | LA | 1.50 | 1.23 |
| 297 | UVA Nursery | Alberto Gomez / Ariana Gutierrez | 7339009901 7339009272 | 19033 Anelo Ave | Gardena | 17516 Scudder Ct. | Carson | CA | 90746 | GO | D | 2.00 | 1.50 |
| 299 | V & N Nursery | Jose Uribe | 2126014900 2126015902 | 18841 Hart St | Reseda | 3948 Sepulveda Blvd. | Culver City | CA | 90230 | GO | LA | 3.00 | 1.50 |
| 320 | Valley Crest Tree Company | Robert Crudup | 2548001011 | 9500 Foothill Blvd | Sunland | 3200 West Telegraph Rd. | Fillmore | CA | 93015 | GO | LA | 1.00 | 0.50 |
| 184 | Valley Sod Farm, Inc. | Dan Gibson | 2689002910 2689002909 | 16405 Chase Street | North Hills | 16405 Chase Street | North Hills | CA | 91343 | S | LA | 36.00 | 36.00 |
| 149 | Vargas Nursery | Oscar Vargas/ Reuben Vargas | 7162001274 | 17020 Passage Ave | Bellflower | 3925 E. Elizabeth St | Compton | CA | 90221 | GO | SG | 1.75 | 1.75 |
| 382 | Victor Martinez Nursery | Victor Martinez | 6242033006 | 13933 Paramount Blvd. | Paramount | 13933 Paramount Blvd. | Paramount | CA | 90723 | IP | LA | 1.88 | 1.88 |
| 298 | Vineland Growers Nursery | Fidel Montenegro/ Gaby Ruiz | 2414003902 2414003901 | 6200 Vineland Ave | North Hollywood | 6200 Vineland Ave | North Hollywood | CA | 91606 | GO | IP | 5.00 | 2.00 |
| 396 | Wendy's Nursery | Juan Ramirez | IP | West of Laurel Canyon Blvd. between Saticoy and Cohasset | Los Angeles | PO Box 4916 | Panorama City | CA | 91412 | IP | LA | 1.70 | 1.70 |
| 187 | West Covina Wholesale Nursery | Dave Zylstra / Mark Barrios / Olegario Gonzalez | 8666021902 8666021904 | 2820 Amherst Ave | La Verne | P. O. Box 8046 | La Verne | CA | 91750 | GO | SG | 5.00 | 4.50 |
| 188 | West Covina Wholesale Nursery | Dave Zylstra / Mark Barrios / Olegario Gonzalez | 8378022910 | West end of Puddingstone West off of Fairplex at Bracket Field / 1420 Puddingstone Dr. | La Verne | P. O. Box 8046 | La Verne | CA | 91750 | GO | SG | 20.00 | 15.25 |

| NGA # | OWNER/ TENANT | OPERATOR/ CONTACT | PARCEL | | | MAILING | | | | CROP TYPE | Watershed | ACREAGE | |
|-------|-------------------------------|---|--|----------------------|--------------------|----------------------|-------------------|-------|-------|-----------|-----------|---------|-----------|
| | | | APN | ADDRESS | CITY | ADDRESS | CITY | STATE | ZIP | | | TOTAL | IRRIGATED |
| 190 | West Covina Wholesale Nursery | Dave Zylstra / Mark Barrios / Olegario Gonzalez | 5386015800 5386015801 5386015802 5386015803 5387004801 5387004800 5387004802 5387004803 | 5820 Burton Ave. | San Gabriel | P. O. Box 8046 | La Verne | CA | 91750 | GO | LA | 15.00 | 15.00 |
| 95 | Wilmington Nursery | Rodrigo Ramirez (New Owner) | 7404034900 | 898 Deloras Drive | Wilmington | 898 E Deloras Drive | Carson | CA | 90745 | GO | D | 3.50 | 2.50 |
| 232 | Wish Vineyard LLC | Susan Hayes | 2049006031 | 25045 Jim Bridger Rd | Hidden Hills | 25045 Jim Bridger Rd | Hidden Hills | CA | 93102 | V | LA | 0.66 | 0.66 |
| 204 | Worldwide Exotics Inc. | Shelly Jennings | 2528025800 | 11157 Orcas Avenue | Lake View bTerrace | 10260 Arnwood Rd. | Lake View Terrace | CA | 91342 | GO | LA | 6.00 | 2.00 |
| 238 | Zuma Canyon Orchids | George Vasquez | 4467024003 | 5949 Bonsall Drive | Malibu | 5949 Bonsall Dr. | Malibu | CA | 90265 | GH | LA | 3.89 | 0.20 |

TOTALS

271

4443.66

1852.74

IP In Progress - still gathering information

atersheds:

| | |
|----|--|
| D | Dominguez Channel LA/Long Beach Harbors WMA |
| LA | Los Angeles River Watershed |
| SC | Santa Clara River Watershed |
| SG | San Gabriel River Watershed |
| SM | Santa Monica WMA |
| SA | Santa Anna River Watershed (Located in the Santa Ana Region) |
| IP | In Progress |

| # Operations | Irrigated Acres |
|--------------|-----------------|
| 57 | 171.85 |
| 129 | 761.62 |
| 6 | 284 |
| 43 | 502.67 |
| 16 | 65.97 |
| 1 | 3 |
| 19 | 63.63 |

271 1852.74

Crop Type:

| Crop Type | # Operations | Irrigated Acres |
|----------------|--------------|-----------------|
| F Cutflower | 3 | 5.95 |
| GO Ornamental | 130 | 545.34 |
| C Color Plants | 12 | 71.6 |
| V Vineyard | 20 | 142.56 |
| GH Greenhouse | 5 | 5.25 |
| O Orchard | 2 | 18 |
| S Sod | 1 | 36 |
| M Multiple | 11 | 794 |
| R Row Crop | 8 | 22.3 |
| IP In Progress | 79 | 211.74 |

271

1852.74

APPENDIX B

TABULATED DATA, CURRENT AND HISTORICAL SAMPLING RESULTS

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
GENERAL CHEMISTRY
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | General Chemistry | | | | | | | | | | | | |
|-------------|-----------------|---------|-----------------------|----------|--------------------------|--------------------|---------------------|-----------|--------------|--------------------------|----------------------|-------------------|--------------------------------------|------------------|---------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO ₃ | Ca | Cu |
| NGA #4 | LAILG-NGA4-5 | 3/21/11 | 0.69 | 10 | 0.31 ^{EB} | 1.5 | 8.3 | 0.52 | 110 | 0.31 ^{EB} | 2.6 | 810 | 62 | 25 | 0.230 |
| NGA #124 | LAILG-NGA124-6 | 3/21/11 | 0.36 | 9.7 | 1.8 ^{EB} | 6.7 | 24 | 1.8 | 240 | 1.8 ^{EB} | 2.7 | 620 ^{FD} | 61 | 24 | 0.045 |
| NGA # 150 | LAILG-NGA 150-5 | 3/21/11 | 3.7 | 28 | 12 ^{EB} | 120 | 60 ^{MS-02} | 32 | 1,200 | 12 ^{EB} | 32 | 110 | 300 | 120 | 0.031 |
| NGA #19 | LAILG-NGA19-6 | 3/23/11 | 0.54 ^{MS-01} | 110 | 0.86 ^{EB,MS-01} | 55 | 250 | 1.1 | 1,200 | 0.86 ^{EB,MS-02} | 3.4 | 550 | 440 | 180 | 0.090 |
| Duplicate | LAILG-NGA-DUP | 3/21/11 | 0.35 | 9.7 | 1.7 ^{EB} | 6.6 | 24 | 1.8 | 220 | 1.7 ^{EB} | 2.3 | 82 | 57 | 23 | 0.035 |
| Equip Blank | LAILG-NGA-EB | 3/21/11 | nd | nd | 2.0 | nd | nd | nd | nd | 2.0 | nd | nd | 0.37 | 0.15 | 0.0028 |
| Field Blank | LAILG-NGA- FB | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #168 | LAILG-NGA168-6 | 3/17/12 | 0.89 | 82 | 1.1 ^{O9} | 35 | 470 | 1.7 | 1,100 | 1.1 ^{O9} | 8.4 | 1200 | 500 | 200 | 0.110 |
| NGA #31 | LAILG-NGA31-4 | 3/17/12 | 1.1 | 55 | 1.0 ^{O9} | 12 | 160 | 0.90 | 520 | 1.0 ^{O9} | 2.0 | 81 | 240 | 95 | 0.027 |
| NGA #162 | LAILG-NGA162-1 | 3/17/12 | 0.16 | 35 | 0.96 ^{O9} | 5.9 | 120 | 0.95 | 350 | 0.96 ^{O9} | 1.0 | 5 | 140 | 57 | 0.014 |
| NGA #64 | LAILG-NGA64-3 | 3/17/12 | 0.79 ^{FD} | 5.8 | 0.28 ^{O9} | 0.70 ^{FD} | 8.4 | 0.32 | 57 | 0.28 ^{O9} | 1.5 ^{FD} | 500 ^{FD} | 51 | 21 | 0.047 |
| Duplicate | LAILG-NGA-DUP | 3/17/12 | 0.60 | 5.4 | 0.25 ^{O9} | 1.3 | 8.6 | 0.27 | 46 | 0.25 ^{O9} | 1.1 | 380 | 44 | 18 | 0.049 |
| Equip Blank | LAILG-NGA-EB | 3/17/12 | nd | nd | nd ^{O9} | nd | nd | nd | nd | nd ^{O9} | nd | nd | nd | nd | 0.00073 |
| Field Blank | LAILG-NGA- FB | 3/17/12 | nd | nd | nd ^{O9} | nd | nd | nd | nd | nd ^{O9} | nd | nd | nd | nd | 0.00050 |
| NGA #4 | LAILG-NGA4-6 | 3/25/12 | na* | 69 | 1.1 | 17 | 52 | 1.0 | 320 | 1.1 | 1.4 | 34 ^{FD} | 100 ^{FD} | 42 ^{FD} | 0.051 |
| NGA #170 | LAILG-NGA170-1 | 3/25/12 | 0.31 | 18 | 0.65 | 1.6 | 14 | 0.60 | 130 | 0.65 | 0.86 | 100 | 61 | 24 | 0.030 |
| NGA #176 | LAILG-NGA176-2 | 3/25/12 | 0.30 | 29 | 0.99 | 8.7 | 43 | 0.99 | 220 | 0.99 | 2.2 | 550 | 80 | 32 | 0.066 |
| NGA #210 | LAILG-NGA210-2 | 3/25/12 | 0.20 | 110 | 1.4 | 0.57 | 250 | 1.3 | 700 | 1.4 | 2.8 ^{MS-02} | 86 | 270 | 110 | 0.0060 |
| Duplicate | LAILG-NGA-DUP | 3/25/12 | 2.2 ^P | 55 | 1.1 | 17 | 44 | 1.1 | 290 | 1.1 | 1.3 | 21 | 61 | 25 | 0.051 |
| Equip Blank | LAILG-NGA-EB | 3/25/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Field Blank | LAILG-NGA- FB | 3/25/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| CWIL Limits | | | See Table 7 | | | | | | | | | | | | |
| MDL | | | 0.048 | 0.10 | 0.00022 | 0.020 | 0.10 | 0.0014 | 4.0 | 0.00022 | 0.0014 | 5 | 0.039 | 0.016 | 0.00027 |
| RL | | | 0.10 | 0.50 | 0.002 | 0.11 | 0.50 | 0.010 | 10 | 0.002 | 0.010 | 5 | 0.25 | 0.10 | 0.00050 |

Concentrations are reported in milligrams per liter (mg/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estimated by the QA Officer.

CWIL Conditional waiver for irrigated lands
EB Estimated concentration, constituent detected at greater than 10% in equipment blank
FD Estimated concentration. Field Duplicate RPD >25%.
FB Estimated concentration, constituent detected at greater than 10% in field blank
na* Ammonia not analyzed due to sample collection via peristaltic pump
p Estimated concentration due to sample collection via peristaltic pump

O9 This sample was received with the EPA recommended holding time expired.
MS-01 The spike recovery for this QC sample is outside of the established control limits possibly due to matrix interference.
MS-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 3
GENERAL CHEMISTRY
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | General Chemistry | | | | | | | | | | | | |
|-------------|----------------|---------|-------------------|------------|------------|-----------|------------|-----------|--------------|-------------|------------|-------------------|--------------------------------------|--------|----------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO ₃ | Ca | Cu |
| NGA #19 | LAILG-NGA19-7 | 2/28/14 | 1.4 | 120 | 2.400** | 53 | 160 | 2.8 | 1,000 | 2.4** | 4.7 | 650 ^{FD} | 319 | 128 | 0.056 |
| NGA #26 | LAILG-NGA26-1 | 2/28/14 | 2.4 | 73 | 1.800** | 6.4 | 180 | 2.1 | 590 | 1.8** | 2.3 | 49 | 158 | 63.2 | 0.056 |
| NGA #124 | LAILG-NGA124-7 | 2/28/14 | 4.5 | 21 | 1.200** | 13 | 100 | 1.5 | 420 | 1.2** | 2.2 | 160 | 125 | 50.2 | 0.049 |
| NGA #178 | LAILG-NGA178-2 | 2/28/14 | 0.87 | 120 | 2.200** | 10 | 370 | 2.4 | 940 | 2.2** | 3.6 | 270 | 324 | 130 | 0.030 |
| NGA #184 | LAILG-NGA184-3 | 2/28/14 | 0.23 | 2.5 | 0.330** | 0.40 | 1.6 | 0.44 | 41 | 0.33** | 0.72 | 160 | 13.8 | 5.54 | 0.0079 |
| Duplicate | LAILG-NGA-DUP | 2/28/14 | 1.4 | 120 | 2.800** | 51 | 170 | 3.1 | 1100 | 2.8** | 5.4 | 470 ^{FD} | 320 | 128 | 0.057 |
| Equip Blank | LAILG-NGA-EB | 2/28/14 | <0.10 | <0.50 | <0.0020 | <0.11 | <0.50 | <0.010 | <10 | <0.0020 | <0.10 | <5 | <0.250 | <0.100 | <0.00050 |
| Field Blank | LAILG-NGA-FB | 2/28/14 | <0.10 | <0.50 | <0.0020 | <0.11 | <0.50 | <0.010 | <10 | <0.0020 | <0.10 | <5 | <0.250 | <0.100 | <0.00050 |
| CWIL Limits | | | See Table 7 | | | | | | | | | | | | |
| MRL | | | 0.10 | 0.50 | 0.0020 | 0.11 | 0.50 | 0.010 | 10.0 | 0.0020 | 0.10 | 5 | 0.250 | 0.100 | 0.00050 |

Concentrations are reported in milligrams per liter (mg/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estimated by the QA Officer.

| | | | |
|------|--|-----|--|
| CWIL | Conditional waiver for irrigated lands | ** | The recommended holding time for filtering is only 15 minutes. The sample was filtered as soon as possible but was filtered past holding time. |
| EB | Estimated concentration, constituent detected at greater than 10% in equipment blank | | However, the sample was analyzed within holding time. |
| FD | Estimated concentration. Field Duplicate RPD >25%. | MRL | Method Reporting Limit |
| FB | Estimated concentration, constituent detected at greater than 10% in field blank | | |

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 4
GENERAL CHEMISTRY
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | General Chemistry | | | | | | | | | | | | |
|-------------|-----------------|---------|-------------------|----------|------------|-----------|------------|-----------|------------|-------------|-------------------|--------------------|--------------------------------------|--------|----------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO ₃ | Ca | Cu |
| NGA #150 | LAILG-NGA-150-6 | 12/2/14 | 0.41 | 60 | 2.4** | 13 | 130 | 2.6 | 530 | 2.5** | 3.7 | 240 | 179 | 71.8 | 0.095 |
| NGA #188 | LAILG-NGA-188-1 | 12/2/14 | 0.31 | 38 | 0.56** | 4.4 | 110 | 0.80 | 330 | 0.56** | 2.0 ^{FD} | 2000 ^{FD} | 141 | 56.3 | 0.036 |
| Duplicate | LAILG-NGA-DUP | 12/2/14 | 0.27 | 35 | 0.58** | 4.4 | 92 | 0.64 | 290 | 0.60** | 1.4 | 430 | 126 | 50.6 | 0.031 |
| NGA #168 | LAILG-NGA-168-7 | 5/15/15 | 0.18 | 57 | 0.36** | 11 | 120 | 0.44 | 400 | 0.36** | 0.74 | 91 | 134 | 53.7 | 0.036 |
| Equip Blank | LAILG-NGA-EB | 12/2/14 | <0.10 | 2.0 | <0.0020** | <0.100 | <0.50 | <0.010 | 10 | <0.0020** | <0.010 | <5 | 1.64 | 0.656 | 0.0011 |
| Field Blank | LAILG-NGA- FB | 12/2/14 | <0.10 | <0.50 | <0.0020** | <0.100 | <0.50 | <0.010 | <10.0 | <0.0020** | <0.010 | <5 | <0.250 | <0.100 | <0.00050 |
| CWIL Limits | | | See Table 7 | | | | | | | | | | | | |
| MRL | | | 0.10 | 0.50 | 0.0020 | 0.100 | 0.50 | 0.010 | 10.0 | 0.0020 | 0.010 | 5 | 0.250 | 0.100 | 0.00050 |

Concentrations are reported in milligrams per liter (mg/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estimated by the QA Officer.

CWIL Conditional waiver for irrigated lands ** The recommended holding time for filtering is only 15 minutes. The sample was filtered as soon as possible but was filtered past holding time.

EB Estimated concentration, constituent detected at greater than 10% in equipment blank However, the sample was analyzed within holding time.

FD Estimated concentration. Field Duplicate RPD >25%. MRL Method Reporting Limit

FB Estimated concentration, constituent detected at greater than 10% in field blank

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 5 CONTINUATION
GENERAL CHEMISTRY
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | General Chemistry | | | | | | | | | | | | |
|-------------|-----------------|--------|-------------------|----------|------------|-----------|---------|-----------|-------|-------------|------------|-----|--------------------------------------|--------|----------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Diss Phos | TDS | Total Ortho | Total Phos | TSS | CA Hardness, as CaCO ₃ | Ca | Cu |
| NGA #64 | LAILG-NGA-64-4 | 1/5/16 | 0.63 | 3.9 | 0.15 | 0.70 | 7.2 | 0.17 | 45 | 0.16 | 0.5 | 190 | 28.3 | 11.3 | 0.027 |
| NGA #168 | LAILG-NGA-168-8 | 1/5/16 | 0.36 | 41 | 0.32 | 15 | 160 | 0.45 | 410 | 0.32 | 0.80 | 140 | 162 | 64.9 | 0.036 |
| Duplicate | LAILG-NGA-DUP | 1/5/16 | 0.36 | 39 | 0.35 | 15 | 160 | 0.5 | 410 | 0.35 | 0.91 | 160 | 159 | 63.6 | 0.041 |
| Equip Blank | LAILG-NGA-EB | 1/5/16 | <0.10 | <0.50 | <0.0020** | <0.100 | <0.50 | <0.010 | <10.0 | <0.0020** | <0.010 | <5 | <0.250 | <0.100 | <0.00050 |
| Field Blank | LAILG-NGA- FB | 1/5/16 | <0.10 | <0.50 | <0.0020** | <0.100 | <0.50 | <0.010 | <10.0 | <0.0020** | <0.010 | <5 | <0.250 | <0.100 | <0.00050 |
| CWIL Limits | | | See Table 7 | | | | | | | | | | | | |
| MRL | | | 0.10 | 0.50 | 0.0020 | 0.100 | 0.50 | 0.010 | 10.0 | 0.0020 | 0.010 | 5 | 0.250 | 0.100 | 0.00050 |

Concentrations are reported in milligrams per liter (mg/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estimated by the QA Officer.

CWIL Conditional waiver for irrigated lands ** The recommended holding time for filtering is only 15 minutes. The sample was filtered as soon as possible but was filtered past holding time.

EB Estimated concentration, constituent detected at greater than 10% in equipment blank However, the sample was analyzed within holding time.

FD Estimated concentration. Field Duplicate RPD >25%. MRL Method Reporting Limit

FB Estimated concentration, constituent detected at greater than 10% in field blank

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080

GENERAL CHEMISTRY
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | General Chemistry | | | | | | | | | |
|-------------|-------------------|----------|-------------------|---------------|---------------------|--------------------------|---------------------------|-------------------|------------------|-------------------|--------------------|-------------------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS |
| NGA #130 | NGA-#130-LAILG-1 | 8/6/07 | 2.5 | 58.34 | 2.2457 | 50.44 | 43.04 | 2.29 | 1,170 | 2.05 | 2.305 | 6.3 |
| NGA #183 | NGA-#183-LAILG-1 | 8/6/07 | 0.04 ^J | 209.97 | 0.2336 | 0.13 | 177.83 | 0.23 | 223 | 0.23 | 0.264 | 11 |
| NGA #19 | NGA-#19-LAILG-1 | 8/13/07 | 1 | 108.57 | 2.2882 | 10.84 | 118.85 | 2.68 | 772 | 4.62 | 5.09 | 568 |
| NGA #124 | NGA-#124-LAILG-1 | 8/13/07 | 9.8 | 69.23 | 3.5006 | 72.48 | 206.25 | 4.31 | 1,002 | 3.96 | 4.627 | 99.5 |
| NGA #168 | NGA-#168-LAILG-1 | 8/13/07 | 0.4 | 81.85 | 1.977 | 4.93 | 131.16 | 2.28 | 664 | 2.13 | 3.243 | 122 |
| NGA BLANK | NGA LAILG-BLANK-1 | 8/13/07 | 0.04 ^J | nd | nd | nd | nd | nd | 32 | nd | nd | nd |
| NGA FB LI | NGA-LAILG-FB LI | 8/21/07 | 0.01 ^J | nd | nd | 0.016 ^J | nd | nd | nd | nd | nd | nd |
| NGA EQB LI | NGA-LAILG-EQB LI | 8/21/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #150 | NGA-#150-LAILG | 9/25/07 | 52.4 | 95.9 | 26.84 | 355.6 | 87 | 22.5 | 2279 | 23 | 24 | 57 |
| NGA #183 | ILG-#183 | 9/26/07 | 13.5 ^B | 51.63 | 1.445 ^{7B} | 11.35^B | 57.38 ^B | 1.64 ^B | 317 ^B | 2.24 ^B | 0.858 ^B | 28.7 ^B |
| GA #183-DU | ILGNGA-#Dup | 9/26/07 | 29 ^B | 55.3 | 4.193 ^B | 26.77^B | 89.17 ^B | 4.29 ^B | 434 ^B | 5.66 ^B | 4.488 ^B | 20 ^B |
| NGA #EQUII | ILGNGA-#Equip | 9/26/07 | nd | nd | nd | nd | nd | nd | 5 | nd | nd | nd |
| NGA #FIELD | ILGNGA-#FIELD-2 | 9/28/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #168-2 | ILGNGA-#168-2 | 9/28/07 | 2.2 | 172.52 | 1.582 ^C | 8.91 | 340.14 ^E | 2.15 | 1,297 | 3.51 | 5.379 | 504 |
| NGA #168 | NGA-#168-LAILG-3 | 11/30/07 | 0.48 | 101.43 | 2.1635 | 30.81 | 245.04 ^F | 2.67 | 951 | 3.13 | 3.548 | nd |
| NGA #182 | NGA-#182-LAILG-1 | 12/7/07 | 0.4 | 60.71 | 1.7533 | 19.85 | 159.87^F | 1.52 | 456 | 1.41 | 1.554 | 20.3 |
| GA #182-DU | NGA-Duplicate | 12/7/07 | 0.42 | 59.2 | 1.8269 | 19.71 | 118.48 ^F | 1.51 | 552 | 1.56 | 1.523 | 20.7 |
| NGA #4 | NGA-#4-LAILG-1 | 12/7/07 | 0.48 | 20.64 | 1.1355 | 4.03 | 20.39 ^F | 0.8 | 186 | 0.77 | 0.829 | 58 |
| NGA #130 | NGA-#130-LAILG-2 | 12/7/07 | 0.3 | 162.95 | 1.0247 | 26.16 | 190 ^F | 0.91 | 830 | 0.74 | 0.94 | 51 |
| NGA #150 | NGA-#150-LAILG-2 | 12/7/07 | 2.9 | 27.34 | 14.0243 | 80.89 | 56.59 ^F | 9.43 | 780 | 8.89 | 9.445 | 40 |
| NGA #124 | NGA-#124-LAILG-2 | 12/7/07 | 4.6 | 33.03 | 3.9247 | 45.41 | 59.24 ^F | 2.9 | 550 | 2.76 | 3.168 | 90 |
| NGA #EQUIII | NGA-equip blank | 12/7/07 | nd | nd | nd | nd | 1.13 | nd | nd | nd | nd | nd |
| NGA #FIELD | Field Blank-2 | 12/18/07 | nd | nd | nd | nd | nd | nd | 6 | nd | nd | nd |
| NGA #176 | NGA-#176-LAILG-1 | 12/18/07 | 5.5 | 56.82 | 0.7145 | 3.85 | 293.12 | 0.54 | 680 | 12.21 | 3.447 | 6,168 |
| NGA #183 | LAILG-NGA#183-3 | 12/18/07 | 1.95 | 28.41 | 2.344 | 11.37 | 41.11 | 2.78 | 292 | 3.14 | 3.561 | 92 |
| NGA #19 | LAILG-NGA#19-2 | 12/18/07 | 1.4 | 162.66 | 11.2352 | 86.7 | 290.99 | 2.13 | 1,292 | 4.01 | 5.544 | 684 |
| NGA #13 | LAILG-NGA#13-1 | 12/18/07 | 1.6 | 5.46 | 0.2033 | 1.72 | 32.27 | 0.49 | 32 | 1.44 | 2.878 | 944 |
| NGA #53 | LAILG-NGA#53-1 | 12/18/07 | 0.7 | 4.72 | 0.2973 | 0.49 | 12.51 | 0.57 | 132 | 0.75 | 1.188 | 124 |
| CWIL Limits | | | See Table X | | | | | | | | | |
| MDL | | | 0.01 | 0.01 | 0.0075 | 0.01 | 0.01 | 0.016 | 0.1 | 0.01 | 0.016 | 0.5 |
| RL | | | 0.05 | 0.05 | 0.01 | 0.05 | 0.05 | 0.05 | 5 | 0.01 | 0.05 | 5 |

Concentrations are reported in milligrams per liter (mg/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference

CWIL Conditional waiver for irrigated lands
B Estimated concentration, since RPD of duplicate is >25%
C Procedural blank Matrix Spike recovery out of limits
E ESTIMATED CONCENTRATION, matrix spike does not meet acceptance criteria
F Sulfate detected in lab blank, at 1.09 mg/L.
J Estimated concentrations, results above MDL but less than RL

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080

**GENERAL CHEMISTRY
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

| Site | Sample # | Date | General Chemistry | | | | | | | | | |
|-------------|-----------------|----------|--------------------|------------------------|-----------------------|---------------------------|----------------------------|----------------------|--------------------------|-------------------|-----------------------|--------------------|
| | | | Ammonia | Chloride | Diss Ortho | Nitrate | Sulfate | Total Diss Phos | TDS | Total Ortho | Total Phos | TSS |
| NGA #110 | LAILG-NGA110-1 | 1/4/08 | 0.41 | 10.65 | 1.3052 | 2.36 | 18.22 | 1.74 | 162 | 1.81 | 2.033 | 24 |
| NGA #189 | LAILG-NGA189-1 | 1/4/08 | 0.59 | 7.29 | 0.6851 | 1.83 | 26.43 | 1.33 | 192 | 1.8 | 2.475 | 20 |
| NGA #19 | LAILG-NGA19-3 | 1/5/08 | 0.12 | 157.52 | 0.2125 | 0.44 | 451.78 | 0.96 | 1,030 | 1.26 | 1.173 | 84 |
| NGA #124 | LAILG-NGA124-3 | 1/5/08 | 15.5 | 28.3 | 0.9814 | 28.34^{Q1} | 57.68 | 1.66 | 378 | 1.66 | 2.228 | 40 |
| NGA #183 | LAILG-NGA183-4 | 1/5/08 | 0.73 | 5.82 | 1.0874 | 1.4 | 6.36 | 0.23 | 106 | 1.29 | 1.729 | 510 |
| NGA #4 | LAILG-NGA4-2 | 1/23/08 | 0.24 | 1.45 | 0.1891 | 0.6 | 3.87 | 0.15 | 145 | 0.26 | 1.848 | 27 |
| NGA #53 | LAILG-NGA53-2 | 1/23/08 | 0.31 | 2.19 | 0.6425 | 0.76 | 14.92 | 0.82 | nd | 0.68 | 1.993 | 516 |
| NGA #64 | LAILG-NGA64-1 | 1/23/08 | 0.20 | 3.82 | 0.2818 | 3.83 | 101.1 | 0.3 | nd | 0.46 | 0.393 | 76 |
| NGA #130 | LAILG-NGA130-3 | 1/24/08 | 0.15 | 58.12 | 0.264 | 3.64 | 107.65 | 0.26 | 383 | 0.27 | 0.314 | 16 |
| NGA #182 | LAILG-NGA182-2 | 1/24/08 | 0.17 ^{M4} | 7.39 | 0.6085 | 1.91 ^{M4} | 14.22 | 0.76 | 218 | 0.81 | 0.825 | 64 |
| NGA #168 | LAILG-NGA168-4 | 1/25/08 | 0.38 | 65.9 | 3.053 | 14.58 | 117.44 | 3.07 | 592 | 5.45 | 2.363 | 1126.7 |
| NGA #19 | LAILG-NGA 19-4 | 8/12/08 | 0.03 ^{FB} | 104.03 | 1.1877 | 12.65 | 107.33 | 1.75 | 834 | 1.86 | 15.494 | 213 |
| NGA # 4 | LAILG-NGA 4-3 | 8/13/08 | 0.68 | 350.11 | 11.5262 | 200.18 | 219.52 | 69.7 ^{FD} | 2,238 | 13.05 | 31.713 | 371 ^{FD} |
| Duplicate | LAILG-NGA-DUP | 8/13/08 | 0.71 | 397.47 | 9.0404 | 212 | 252.22 | 34.87 ^{FD} | 2,350 | 12 | 26.483 | 787 ^{FD} |
| NGA # 31 | LAILG-NGA 31-1 | 9/23/08 | 0.13 ^{FD} | 82.13 ^{EB,FB} | 1.562 ^{H,FD} | 17.3 | 134.93 | 1.472 ^H | 602 | 2.34 ^H | 1.813 ^{H,FD} | 162 |
| Duplicate | LAILG-NGA-DUP | 9/23/08 | 0.37 ^{FD} | 82.37 ^{EB,FB} | 2.629 ^{H,FD} | 19.64 | 136.19 ^{M4} | 1.84 ^H | 626 | 2.10 ^H | 0.883 ^{HM3} | 127 |
| NGA # 19 | LAILG-NGA 19-5 | 11/26/08 | 0.96 | 115.72 | 1.507 | 26.94 | 126.35 | 1.356 | 748 | 4.69 | 4.884 | 995 |
| NGA # 210 | LAILG-NGA 210-1 | 11/26/08 | 0.11 | 155.92 | 1.892 | 0.92 | 336.78 | 2.185 | 884 | 3.23 | 3.722 | 542 |
| NGA # 184 | LAILG-NGA 184-1 | 11/26/08 | 0.46 | 31.44 | 0.609 | 3.12 | 17.92 | 0.643 | 206 ^{FB} | 0.88 | 1.3 | 129.5 |
| Duplicate | LAILG-NGA-DUP | 11/26/08 | 0.48 | 32.51 | 0.616 | 3.1 | 18.68 | 0.65 | 214 ^{FB} | 0.86 | 1.297 | 128 |
| NGA # 124 | LAILG-NGA 124-4 | 11/26/08 | 0.48 | 37.78 | 2.595 | 28.36 | 84.22 | 2.975 | 568 | 2.53 | 3.297 | 117 |
| NGA # 31 | LAILG-NGA 31-2 | 11/26/08 | 0.76 | 6.12 | 0.474 | 3.6 | 14.84 | 0.497 | 104 ^{FB} | 1.63 | 1.94 | 353 |
| NGA # 130 | LAILG-NGA 130-4 | 11/26/08 | 0.68 | 95.81 | 0.228 | 9.17 | 183.82 | 0.652 | 616 | 0.8 | 1.046 | 97 |
| NGA # 150 | LAILG-NGA 150-3 | 11/26/08 | 32.2 | 65.92 | 31.579 | 114.76 | 258.65 | 49.896 | 2,446 | 37.69 | 48.048 | 45.5 |
| NGA # 25 | LAILG-NGA 25-1 | 11/26/08 | 0.85 | 21.99 | 1.1712 | 5.31 | 51.95 | 1.338 | 166 ^{FB} | 1.38 | 1.641 | 168.5 |
| NGA # 150 | LAILG-NGA 150-4 | 12/15/08 | 15.75 | 47.27 | 26.0911 | 268.53 | 125.27^{M4} | 24.935 ^{M4} | 1704^{EB} | 2.94 | 24.75 ^{M4} | 333.5 |
| NGA # 124 | LAILG-NGA 124-5 | 12/15/08 | 1.68 | 26.51 | 24.4087 | 40.43 | 45.28 | 21.115 | 424 ^{EB} | 3.66 | 2.706 | 115.5 |
| NGA # 189 | LAILG-NGA 189-2 | 12/15/08 | 0.54 | 31.28 | 0.6795 | 9.87 | 41.27 | 0.813 | 220 ^{FB} | 0.99 | 1.261 | 111.3 |
| NGA # 110 | LAILG-NGA 110-2 | 12/15/08 | 0.31 | 28.59 | 1.186 | 8.48 | 50.87 | 1.469 | 328 ^{EB} | 1.6 | 1.868 | 93 |
| NGA # 31 | LAILG-NGA 31-3 | 12/15/08 | 4.32 | 36.98 | 3.0228 | 12.14 | 57.58 | 2.148 | 364 ^{EB} | 2.87 | 3.155 | 85.5 |
| NGA # 184 | LAILG-NGA 184-2 | 12/15/08 | 0.64 | 27.46 | 0.7339 | 4.41 | 33.57 | 0.502 | 240 ^{EB} | 2.16 | 2.94 | 1,079 |
| NGA # 130 | LAILG-NGA 130-5 | 12/15/08 | 0.52 | 46.43 | 0.4392 | 11.81 | 67.8 | 0.481 | 258 ^{EB} | 0.47 | 0.512 | 59.7 |
| NGA # 178 | LAILG-NGA 178-1 | 12/15/08 | 0.81 | 85.04 | 2.4077 | 12.99 | 148.27 | 2.648 | 462^{EB} | 2.64 | 2.934 | 72.7 ^{FD} |
| Duplicate | LAILG-NGA-DUP | 12/15/08 | 0.79 | 102.32 | 2.3169 | 14.99 | 173.96 | 2.604 | 588 | 2.62 | 2.944 | 49.3 |
| NGA # 64 | LAILG-NGA 64-2 | 12/15/08 | 1.15 | 12.38 ^{EB} | 0.4307 | 5.39 | 35.34 | 0.49 | 232 ^{EB} | 0.71 | 0.868 | 112 |
| NGA # 168 | LAILG-NGA 168-5 | 12/15/08 | 0.25 | 53.4 | 1.4434 | 15.33 | 130.75 | 1.568 | 492 ^{EB} | 2.24 | 2.386 | 236 |
| NGA # 4 | LAILG-NGA 4-4 | 12/15/08 | 0.52 | 8.67 ^{EB} | 1.0382 | 2.7 | 15.23 | 0.158 | 238 ^{EB} | 2.33 | 2.231 | 295 |
| CWIL Limits | | | See Table X | | | | | | | | | |
| MDL | | | 0.01 | 0.01 | 0.0075 | 0.01 | 0.01 | 0.016 | 0 | 0.01 | 0.016 | 0.5 |
| RL | | | 0.05 | 0.05 | 0.01 | 0.05 | 0.05 | 0.05 | 5 | 0.01 | 0.05 | 5 |

Concentrations are reported in milligrams per liter (mg/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference.

CWIL Conditional waiver for irrigated lands M4 Spike or surrogate compound recovery was out of control due to matrix interference.

EB Estimated concentration, constituent detected at greater than 10% in equipment blank The associated method blank spike or surrogate compound was in control and therefore

FD Estimated concentration. Field Duplicate RPD >25%. the sample data was reported without further clarification.

FB Estimated concentration, constituent detected at greater than 10% in field blank

H Sample received and /or analyzed past the recommended holding time. Q1 Spike recovery and RPD control limits do not apply resulting from the parameter

M3 Detection of the analyte was difficult due to matrix interference. concentration in the sample exceeding the spike concentration.

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 5 CONTINUATION
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Chlorinated Pesticides | | | | | | | | | | | | | | | | | |
|-------------|-----------------|--------|------------------------|-------------|----------|-------------|-------------|-------------|-------------|------------|-----------|-----------|-----------|-----------------|-----------------|-------------|--------------------|----------------|----------------|------|
| | | | 2,4'-DDD | 2, 4'-DDE | 2,4'-DDT | 4,4'-DDD | 4,4'-DDE | 4,4'-DDT | Aldrin | BHC-alpha | BHC-beta | BHC-delta | BHC-gamma | Chlordane-alpha | Chlordane-gamma | Dieldrin | Endosulfan Sulfate | Endosulphan-I | Endosulfan-II | |
| NGA #64 | LAILG-NGA-64-4 | 1/5/16 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | |
| NGA #168 | LAILG-NGA-168-8 | 1/5/16 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| Duplicate | LAILG-NGA-DUP | 1/5/16 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| Equip Blank | LAILG-NGA-EB | 1/5/16 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Field Blank | LAILG-NGA-FB | 1/5/16 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| WQB | | | nl | 0.59 | nl | 0.84 | 0.59 | 0.59 | 0.13 | 3.9 | 14 | nl | 19 | nl | nl | 0.14 | 110,000 | 110,000 | 110,000 | |
| MRL | | | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |

Concentrations are reported in nanograms per liter (ng/L). **Results above WQB are presented in BOLD.** Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estimated

| | | | |
|------|---|------|---|
| CWIL | Conditional waiver for irrigated lands, order #R4-2005-0080 | M-04 | Visual evaluation of the sample indicates the RPD or QC spike is above the control limit due to a non-homogeneous sample matrix |
| WQB | Water Quality Benchmarks | | |
| MRL | Method Reporting Limits | | |
| nl | not listed | | |

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 4
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Chlorinated Pesticides | | | | | | | | | | | | | | | | |
|-------------|-----------------|---------|------------------------|-------------|----------|-------------|-------------|-------------|-------------|------------|-----------|-----------|-----------|-----------------|-----------------|-------------|--------------------|----------------|----------------|
| | | | 2,4'-DDD | 2, 4'-DDE | 2,4'-DDT | 4,4'-DDD | 4,4'-DDE | 4,4'-DDT | Aldrin | BHC-alpha | BHC-beta | BHC-delta | BHC-gamma | Chlordane-alpha | Chlordane-gamma | Dieldrin | Endosulfan Sulfate | Endosulphan-I | Endosulfan-II |
| NGA #150 | LAILG-NGA-150-6 | 12/2/14 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| NGA #188 | LAILG-NGA-188-1 | 12/2/14 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Duplicate | LAILG-NGA-DUP | 12/2/14 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| NGA #168 | LAILG-NGA-168-7 | 5/15/15 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| Equip Blank | LAILG-NGA-EB | 12/2/14 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Field Blank | LAILG-NGA- FB | 12/2/14 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| WQB | | | nl | 0.59 | nl | 0.84 | 0.59 | 0.59 | 0.13 | 3.9 | 14 | nl | 19 | nl | nl | 0.14 | 110,000 | 110,000 | 110,000 |
| MRL | | | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |

Concentrations are reported in nanograms per liter (ng/L). **Results above WQB are presented in BOLD.** Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estimated

| | | | |
|------|---|------|---|
| CWIL | Conditional waiver for irrigated lands, order #R4-2005-0080 | M-04 | Visual evaluation of the sample indicates the RPD or QC spike is above the control limit due to a non-homogeneous sample matrix |
| WQB | Water Quality Benchmarks | | |
| MRL | Method Reporting Limits | | |
| nl | not listed | | |

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 3
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Chlorinated Pesticides | | | | | | | | | | | | | | | | |
|-------------|----------------|---------|------------------------|-------------|----------|-------------|-------------|-------------|-------------|------------|-----------|-----------|-----------|-----------------|-----------------|-------------|--------------------|----------------|----------------|
| | | | 2,4'-DDD | 2, 4'-DDE | 2,4'-DDT | 4,4'-DDD | 4,4'-DDE | 4,4'-DDT | Aldrin | BHC-alpha | BHC-beta | BHC-delta | BHC-gamma | Chlordane-alpha | Chlordane-gamma | Dieldrin | Endosulfan Sulfate | Endosulphan-I | Endosulfan-II |
| NGA #19 | LAILG-NGA19-7 | 2/28/14 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| NGA #26 | LAILG-NGA26-1 | 2/28/14 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| NGA #124 | LAILG-NGA124-7 | 2/28/14 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| NGA #178 | LAILG-NGA178-2 | 2/28/14 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| NGA #184 | LAILG-NGA184-3 | 2/28/14 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| Duplicate | LAILG-NGA-DUP | 2/28/14 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| Equip Blank | LAILG-NGA-EB | 2/28/14 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Field Blank | LAILG-NGA- FB | 2/28/14 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| WQB | | | nl | 0.59 | nl | 0.84 | 0.59 | 0.59 | 0.13 | 3.9 | 14 | nl | 19 | nl | nl | 0.14 | 110,000 | 110,000 | 110,000 |
| MRL | | | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |

Concentrations are reported in nanograms per liter (ng/L). **Results above WQB are presented in BOLD.** Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estimated

| | | | |
|------|---|------|---|
| CWIL | Conditional waiver for irrigated lands, order #R4-2005-0080 | M-04 | Visual evaluation of the sample indicates the RPD or QC spike is above the control limit due to a non-homogeneous sample matrix |
| WQB | Water Quality Benchmarks | | |
| MRL | Method Reporting Limits | | |
| nl | not listed | | |

**SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

| Site | Sample # | Date | Chlorinated Pesticides | | | | | | | | | | | | | | | | |
|-------------|-----------------|---------|------------------------|-------------|----------|-------------|------------------------|-------------|--------|-----------|----------|-----------|-----------|-----------------|-----------------|------------------------|--------------------|-------------------|---------------|
| | | | 2,4'-DDD | 2, 4'-DDE | 2,4'-DDT | 4,4'-DDD | 4,4'-DDE | 4,4'-DDT | Aldrin | BHC-alpha | BHC-beta | BHC-delta | BHC-gamma | Chlordane-alpha | Chlordane-gamma | Dieldrin | Endosulfan Sulfate | Endosulphan-I | Endosulfan-II |
| NGA #4 | LAILG-NGA4-5 | 3/21/11 | nd | nd | nd | nd | 17 | 21 | nd | nd | nd | nd | nd | 13 | 18 | nd | nd | nd | nd |
| NGA #124 | LAILG-NGA124-6 | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 33^{FD} | nd | nd | nd |
| NGA # 150 | LAILG-NGA 150-5 | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #19 | LAILG-NGA19-6 | 3/23/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Duplicate | LAILG-NGA-DUP | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 22 | nd | nd | nd |
| Equip Blank | LAILG-NGA-EB | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Field Blank | LAILG-NGA- FB | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #168 | LAILG-NGA168-6 | 3/17/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{BSL} | nd |
| NGA #31 | LAILG-NGA31-4 | 3/17/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{BSL} | nd |
| NGA #162 | LAILG-NGA162-1 | 3/17/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{BSL} | nd |
| NGA #64 | LAILG-NGA64-3 | 3/17/12 | nd | nd | nd | nd | 28^{FD} | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{BSL} | nd |
| Duplicate | LAILG-NGA-DUP | 3/17/12 | nd | nd | nd | nd | 51 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{BSL} | nd |
| Equip Blank | LAILG-NGA-EB | 3/17/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{BSL} | nd |
| Field Blank | LAILG-NGA- FB | 3/17/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{BSL} | nd |
| NGA #4 | LAILG-NGA4-6 | 3/25/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #170 | LAILG-NGA170-1 | 3/25/12 | nd | nd | nd | nd | 9.6 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #176 | LAILG-NGA176-2 | 3/25/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #210 | LAILG-NGA210-2 | 3/25/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Duplicate | LAILG-NGA-DUP | 3/25/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Equip Blank | LAILG-NGA-EB | 3/25/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Field Blank | LAILG-NGA- FB | 3/25/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| CWIL Limits | | | nl | 0.59 | nl | 0.84 | 0.59 | 0.59 | nl | nl | nl | nl | nl | nl | nl | 0.14 | nl | nl | nl |
| MDL | | | 5.0 | 5.0 | 5.0 | 5.0 | 2.5 | 3.1 | 1.5 | 1.8 | 3.1 | 2.5 | 2.1 | 5.0 | 5.0 | 2.1 | 5.0 | 1.7 | 1.9 |
| RL | | | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |

Concentrations are reported in nanograms per liter (ng/L). **Results above CWIL Limits are presented in BOLD.** Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

| | | | |
|--|--|-------------------|--|
| CWIL FD J MDL RL nd nl | Conditional waiver for irrigated lands, order #R4-2005-0080 Estimated concentration. Field Duplicate RPD >25%. Estimated concentrations, results above MDL but less than RL Method Detection Limits Reporting Limits not detected not listed | S4 SGC BS-L | The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect. Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate. The recovery of this analyte in the BS/LCS was below the control limit. Sample result is suspect. |
|--|--|-------------------|--|

**SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

| Site | Sample # | Date | Chlorinated Pesticides | | | | | | | | | | | | | | | | | |
|--------------|-------------------|----------|------------------------|-----------|-------------------|-------------------------|--------------------------|---------------------------|-------------|------------|-----------|-----------|-----------|------------------|------------------|------------------|------|-------------------|-------------|---|
| | | | 2,4'-DDD | 2, 4'-DDE | 2,4'-DDT | 4,4'-DDD | 4,4'-DDE | 4,4'-DDT | Aldrin | BHC-alpha | BHC-beta | BHC-delta | BHC-gamma | Chlordane-alpha | Chlordane-gamma | cis-Nonachlor | DCPA | Dicofol | Dieldrin | |
| NGA #130 | NGA-#130-LAILG-1 | 8/6/07 | nd | nd | nd | 22.8 | 34.7 | 16.1 | nd | nd | nd | nd | nd | nd | nd | nd | nd | 68.3 ^J | nd | |
| NGA #183 | NGA-#183-LAILG-1 | 8/6/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #19 | NGA-#19-LAILG-1 | 8/13/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #124 | NGA-#124-LAILG-1 | 8/13/07 | nd | nd | nd | 22.5 | 15.3 | 13.7 | nd | nd | nd | nd | nd | nd | nd | nd | 12.1 | nd | nd | |
| NGA #168 | NGA-#168-LAILG-1 | 8/13/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA BLANK | NGA LAILG-BLANK-1 | 8/13/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA FB LI | NGA-LAILG-FB LI | 8/21/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA EQ BLI | NGA-LAILG-EQ BLI | 8/21/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #150 | NGA-#150-LAILG | 9/25/07 | nd | nd | nd | nd | nd | nd ^D | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #183 | ILG-#183 | 9/26/07 | 25 ^B | nd | 31.8 ^B | 90.3^B | 113.8^B | 51.1^{B,D} | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #183-DUP | ILGNGA-#Dup | 9/26/07 | nd ^B | nd | nd ^B | 64.5^B | 70.2^B | nd ^{B,D} | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #EQUIP | ILGNGA-#Equip | 9/26/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #FIELD | ILGNGA-#FIELD-2 | 9/28/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #168-2 | ILGNGA-#168-2 | 9/28/07 | nd | nd | 17.3 | 16.7 | nd | 84^D | nd | nd | nd | nd | nd | nd | nd | nd | nd | 52 ^J | nd | |
| NGA #168 | NGA-#168-LAILG-3 | 11/30/07 | nd | nd | nd | nd | 2.7^J | nd ^C | nd | nd | nd | nd | nd | 1.4 ^J | 1.4 ^J | 1.1 ^J | nd | nd | nd | |
| NGA #182 | NGA #182-LAILG-1 | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #182-DUP | NGA-Duplicate | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #4 | NGA #4-LAILG-1 | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #130 | NGA #130-LAILG-2 | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #150 | NGA #150-LAILG-2 | 12/7/07 | nd | nd | nd | nd | nd | nd | 35.2 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #124 | NGA-#124-LAILG-2 | 12/7/07 | nd | nd | nd | 6.0 | 22.1 | 9.3 | nd | nd | nd | nd | nd | 1.1 ^J | 3.0 ^J | nd | nd | 63.7 ^J | nd | |
| NGA #EQUIP | NGA-equip blank | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #FIELD | Field Blank-2 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #176 | LAILG-NGA#176-1 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #183 | LAILG-NGA#183-3 | 12/18/07 | 36.8 | 5.7 | 20.6 | 224.8 | 344.4 | 73.5 | nd | nd | nd | nd | nd | nd | nd | nd | nd | 51.5 ^J | nd | |
| NGA #19 | LAILG-NGA#19-2 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #13 | LAILG-NGA#13-1 | 12/18/07 | nd | nd | nd | nd | 32.7 | nd | nd | nd | nd | nd | nd | 18 | 19.2 | 19.6 | nd | nd | nd | |
| NGA #53 | LAILG-NGA#53-1 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| CWIL Limits | | | nl | nl | nl | 0.59 | 0.59 | 0.83 | 0.13 | 3.9 | 14 | nl | 19 | a) | a) | a) | nl | nl | 0.14 | |
| MDL | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 50 | 1 |
| RL | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 10 | 100 | 5 |

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
 A Component of total chlordane, see total chlordane for CWIL limitations
 B **Estimated concentration, RPD of duplicate sample >25%**
 C Procedural blank Matrix Spike recovery out of limits
 D Procedural blank Matrix Spike Duplicate RPD out of limits
 J Estimated concentrations, results above MDL but less than RL

MDL Method Detection Limits
 RL Reporting Limits
 nd not detected
 nl not listed
 na not analyzed

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 5 CONTINUATION
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Chlorinated Pesticides | | | | | | | | | | | Sample Notes | |
|-------------|-----------------|--------|------------------------|------------|-----------------|------------------|-------------|--------------------|--------------|-------|-------------|-----------------|---------------|--------------|-----------------|
| | | | Aroclor XXXX, Sum of | Endrin | Endrin Aldehyde | Chlordane (tech) | Heptachlor | Heptachlor Epoxide | Methoxychlor | Mirex | Toxaphene | trans-Nonachlor | cis-Nonachlor | | Total Chlordane |
| NGA #64 | LAILG-NGA-64-6 | 1/5/16 | <500 | <25 | <25 | <500 | <25 | <25 | <25 | <25 | <2500 | <25 | <25 | <25 | M-04 |
| NGA #168 | LAILG-NGA-168-1 | 1/5/16 | <500 | <25 | <25 | <500 | <25 | <25 | <25 | <25 | <2500 | <25 | <25 | <25 | M-04 |
| Duplicate | LAILG-NGA-DUP | 1/5/16 | <500 | <25 | <25 | <500 | <25 | <25 | <25 | <25 | <2500 | <25 | <25 | <25 | M-04 |
| Equip Blank | LAILG-NGA-EB | 1/5/16 | <100 | <5.0 | <5.0 | <100 | 68 | <5.0 | <5.0 | <5.0 | <500 | <5.0 | <5.0 | <5.0 | |
| Field Blank | LAILG-NGA-FB | 1/5/16 | <100 | <5.0 | <5.0 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <500 | <5.0 | <5.0 | <5.0 | |
| WQB | | | nl | 760 | 760 | nl | 0.21 | 0.1 | nl | nl | 0.75 | nl | nl | 0.59 | |
| MRL | | | 100 | 5.0 | 5.0 | 100 | 5.0 | 5.0 | 5.0 | 5.0 | 500 | 5 | 5.0 | 5.0 | |

Concentrations are reported in nanograms per liter (ng/L). **Results above WQB are presented in BOLD**. Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estimated

| | | | |
|------|---|------|---|
| CWIL | Conditional waiver for irrigated lands, order #R4-2005-0080 | M-04 | Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution. |
| WQB | Water Quality Benchmarks | | |
| MRL | Method Reporting Limits | | |
| nl | not listed | | |

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 4
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Chlorinated Pesticides | | | | | | | | | | | | Sample Notes |
|-------------|-----------------|---------|------------------------|------------|-----------------|------------------|-------------|--------------------|--------------|-------|-------------|-----------------|---------------|-----------------|--------------|
| | | | Aroclor XXXX, Sum of | Endrin | Endrin Aldehyde | Chlordane (tech) | Heptachlor | Heptachlor Epoxide | Methoxychlor | Mirex | Toxaphene | trans-Nonachlor | cis-Nonachlor | Total Chlordane | |
| NGA #150 | LAILG-NGA-150-6 | 12/2/14 | <1000 | <50 | <50 | <1000 | <50 | <50 | <50 | <50 | <5000 | <50 | <50 | <50 | M-04 |
| NGA #188 | LAILG-NGA-188-1 | 12/2/14 | <100 | <5.0 | <5.0 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <500 | <5.0 | <5.0 | <5.0 | |
| Duplicate | LAILG-NGA-DUP | 12/2/14 | <100 | <5.0 | <5.0 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <500 | <5.0 | <5.0 | <5.0 | |
| NGA #168 | LAILG-NGA-168-7 | 5/15/15 | <500 | <25 | <25 | <500 | <25 | <25 | <25 | <25 | <2500 | <25 | <25 | <25 | M-04 |
| Equip Blank | LAILG-NGA-EB | 12/2/14 | <100 | <5.0 | <5.0 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <500 | <5.0 | <5.0 | <5.0 | |
| Field Blank | LAILG-NGA- FB | 12/2/14 | <100 | <5.0 | <5.0 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <500 | <5.0 | <5.0 | <5.0 | |
| WQB | | | nl | 760 | 760 | nl | 0.21 | 0.1 | nl | nl | 0.75 | nl | nl | 0.59 | |
| MRL | | | 100 | 5.0 | 5.0 | 100 | 5.0 | 5.0 | 5.0 | 5.0 | 500 | 5 | 5.0 | 5.0 | |

Concentrations are reported in nanograms per liter (ng/L). **Results above WQB are presented in BOLD**. Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estimated

| | | | |
|------|---|------|---|
| CWIL | Conditional waiver for irrigated lands, order #R4-2005-0080 | M-04 | Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution. |
| WQB | Water Quality Benchmarks | | |
| MRL | Method Reporting Limits | | |
| nl | not listed | | |

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 3
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Chlorinated Pesticides | | | | | | | | | | | Sample Notes | | |
|-------------|----------------|---------|------------------------|------------|-----------------|------------------|-------------|--------------------|--------------|-------|-------------|-----------------|---------------|--------------|-----------------|------|
| | | | Aroclor XXXX, Sum of | Endrin | Endrin Aldehyde | Chlordane (tech) | Heptachlor | Heptachlor Epoxide | Methoxychlor | Mirex | Toxaphene | trans-Nonachlor | cis-Nonachlor | | Total Chlordane | |
| NGA #19 | LAILG-NGA19-7 | 2/28/14 | <500 | <25 | <25 | <500 | <25 | <25 | <25 | <25 | <25 | <2500 | <25 | <25 | <25 | M-04 |
| NGA #26 | LAILG-NGA26-1 | 2/28/14 | <500 | <25 | <25 | <500 | <25 | <25 | <25 | <25 | <25 | <2500 | <25 | <25 | <25 | M-04 |
| NGA #124 | LAILG-NGA124-7 | 2/28/14 | <500 | <25 | <25 | <500 | <25 | <25 | <25 | <25 | <25 | <2500 | <25 | <25 | <25 | M-04 |
| NGA #178 | LAILG-NGA178-2 | 2/28/14 | <500 | <25 | <25 | <500 | <25 | <25 | <25 | <25 | <25 | <2500 | <25 | <25 | <25 | M-04 |
| NGA #184 | LAILG-NGA184-3 | 2/28/14 | <500 | <25 | <25 | <500 | <25 | <25 | <25 | <25 | <25 | <2500 | <25 | <25 | <25 | M-04 |
| Duplicate | LAILG-NGA-DUP | 2/28/14 | <500 | <25 | <25 | <500 | <25 | <25 | <25 | <25 | <25 | <2500 | <25 | <25 | <25 | M-04 |
| Equip Blank | LAILG-NGA-EB | 2/28/14 | <100 | <5.0 | <5.0 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <500 | <5.0 | <5.0 | <5.0 | |
| Field Blank | LAILG-NGA- FB | 2/28/14 | <100 | <5.0 | <5.0 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <500 | <5.0 | <5.0 | <5.0 | |
| WQB | | | nl | 760 | 760 | nl | 0.21 | 0.1 | nl | nl | 0.75 | nl | nl | 0.59 | | |
| MRL | | | 100 | 5.0 | 5.0 | 100 | 5.0 | 5.0 | 5.0 | 5.0 | 500 | 5 | 5.0 | 5.0 | | |

Concentrations are reported in nanograms per liter (ng/L). **Results above WQB are presented in BOLD**. Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estimated

| | | | |
|------|---|------|---|
| CWIL | Conditional waiver for irrigated lands, order #R4-2005-0080 | M-04 | Visual evaluation of the sample indicates the RPD or QC spike is above the control limit due to a non-homogeneous sample matrix |
| WQB | Water Quality Benchmarks | | |
| MRL | Method Reporting Limits | | |
| nl | not listed | | |

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Chlorinated Pesticides | | | | | | | | | | | |
|-------------|-----------------|---------|-------------------------|--------|-----------------|-------------------|------------|-----------------------|--------------|-------|-----------|---------------------|--------------------|-------------|
| | | | Aroclor XXXX, Sum of | Endrin | Endrin Aldehyde | Endrin Ketone | Heptachlor | Heptachlor Epoxide | Methoxychlor | Mirex | Toxaphene | trans- Nonachlor | Total Chlordane | |
| NGA #4 | LAILG-NGA#4-2 | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 8.6 | 39.6 |
| NGA #124 | LAILG-NGA#124-3 | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA # 150 | LAILG-NGA 150-3 | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #19 | LAILG-NGA#19-2 | 3/23/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Duplicate | LAILG-NGA-DUP | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Equip Blank | LAILG-NGA-EB | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Field Blank | LAILG-NGA- FB | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #168 | LAILG-NGA168-6 | 3/17/12 | nd | nd | nd | nd ^{S4} | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #31 | LAILG-NGA31-4 | 3/17/12 | nd | nd | nd | nd ^{S4} | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #162 | LAILG-NGA162-1 | 3/17/12 | nd | nd | nd | nd ^{S4} | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #64 | LAILG-NGA64-3 | 3/17/12 | nd | nd | nd | nd ^{S4} | nd | nd | nd | nd | nd | nd | nd | nd |
| Duplicate | LAILG-NGA-DUP | 3/17/12 | nd | nd | nd | nd ^{S4} | nd | nd | nd | nd | nd | nd | nd | nd |
| Equip Blank | LAILG-NGA-EB | 3/17/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Field Blank | LAILG-NGA- FB | 3/17/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #4 | LAILG-NGA4-6 | 3/25/12 | nd | nd | nd | nd ^{SGC} | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #170 | LAILG-NGA170-1 | 3/25/12 | nd | nd | nd | nd ^{SGC} | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #176 | LAILG-NGA176-2 | 3/25/12 | nd | nd | nd | nd ^{SGC} | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #210 | LAILG-NGA210-2 | 3/25/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Duplicate | LAILG-NGA-DUP | 3/25/12 | nd | nd | nd | nd ^{S4} | nd | nd | nd | nd | nd | nd | nd | nd |
| Equip Blank | LAILG-NGA-EB | 3/25/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Field Blank | LAILG-NGA- FB | 3/25/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| CWIL Limits | | | nl | nl | nl | nl | nl | nl | nl | nl | nl | 0.75 | nl | 0.59 |
| MDL | | | 40 | 2.8 | 3.0 | 2.0 | 1.7 | 1.9 | 5.0 | 5.0 | 120 | 5.0 | 5.0 | 5.0 |
| RL | | | 100 | 5.0 | 5.0 | 20.0 | 5.0 | 5.0 | 5.0 | 5.0 | 500 | 5.0 | 5.0 | 5.0 |

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in BOLD. Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

| | | | |
|------|--|------|--|
| CWIL | Conditional waiver for irrigated lands, order #R4-2005-008C | S4 | The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect. |
| MDL | Method Detection Limits | | |
| J | Estimated concentrations, results above MDL but less than RL | SGC | Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate. |
| RL | Reporting Limits | | |
| nd | not detected | BS-L | The recovery of this analyte in the BS/LCS was below the control limit. Sample result is suspect. |
| nl | not listed | | |
| FD | Estimated concentration. Field Duplicate RPD >25%. | | |

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Endosulfan Sulfate | Endosulphan-I | Endosulfan-II | Endrin | Endrin Aldehyde | Endrin Ketone | Heptachlor | Heptachlor Epoxide | Methoxychlor | Kepone | Mirex | Oxychlorane | Perthane | Toxaphene | trans-Nonachlor | Total Chlordane |
|--------------|-------------------|----------|--------------------|---------------|---------------|-----------|-----------------|---------------|-------------|--------------------|-----------------|-----------------|-------|-----------------|----------|-----------|------------------|------------------------|
| | | | | | | | | | | | | | | | | | | |
| NGA #130 | NGA-#130-LAILG-1 | 8/6/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | na | nd | nd | nd | nd | nd | nd |
| NGA #183 | NGA-#183-LAILG-1 | 8/6/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | na | nd | nd | nd | nd | nd | nd |
| NGA #19 | NGA-#19-LAILG-1 | 8/13/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | na | nd | nd | nd | nd | nd | nd |
| NGA #124 | NGA-#124-LAILG-1 | 8/13/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | na | nd | nd | nd | nd | 21.9 | 34 |
| NGA #168 | NGA-#168-LAILG-1 | 8/13/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | na | nd | nd | nd | nd | nd | nd |
| NGA BLANK | NGA LAILG-BLANK-1 | 8/13/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA FBLL | NGA-LAILG-FBLL | 8/21/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA EQBLI | NGA-LAILG-EQBLI | 8/21/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #150 | NGA-#150-LAILG | 9/25/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | na | nd | nd ^D | nd | nd | nd | nd |
| NGA #183 | ILG-#183 | 9/26/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | na | nd | nd ^D | nd | nd | nd | nd |
| NGA #183-DUP | ILGNGA-#Dup | 9/26/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | na | nd | nd ^D | nd | nd | nd | nd |
| NGA #EQUIP | ILGNGA-#Equip | 9/26/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #FIELD | ILGNGA-#FIELD-2 | 9/28/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #168-2 | ILGNGA-#168-2 | 9/28/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | na | nd | nd ^D | nd | nd | nd | nd |
| NGA #168 | NGA-#168-LAILG-3 | 11/30/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd ^C | nd | nd | nd | nd | nd | 1.7 ^J | 5.6^J |
| NGA #182 | NGA #182-LAILG-1 | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #182-DUP | NGA-Duplicate | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #4 | NGA #4-LAILG-1 | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #130 | NGA #130-LAILG-2 | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #150 | NGA #150-LAILG-2 | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #124 | NGA-#124-LAILG-2 | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 7.3 | 11.4 |
| NGA #EQUIP | NGA-equip blank | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #FIELD | Field Blank-2 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #176 | LAILG-NGA#176-1 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd ^C | nd | nd | nd | nd | nd | nd |
| NGA #183 | LAILG-NGA#183-3 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd ^C | nd | nd | nd | nd | nd | nd |
| NGA #19 | LAILG-NGA#19-2 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd ^C | nd | nd | nd | nd | 2.4 ^J | 2.4^J |
| NGA #13 | LAILG-NGA#13-1 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd ^C | nd | nd | nd | nd | 54.1 | 110.9 |
| NGA #53 | LAILG-NGA#53-1 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd ^C | nd | nd | nd | nd | nd | nd |
| CWIL Limits | | | nl | 5.6 | 5.6 | 36 | nl | nl | 0.21 | 0.1 | nl | nl | nl | a) | nl | 25 | a) | 0.57 |
| MDL | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 10 | 1 | 1 |
| RL | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 10 | 50 | 5 | 5 |

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
A Component of total chlordane, see total chlordane for CWIL limitations
B Estimated concentration, RPD of duplicate sample >25%
C Procedural blank Matrix Spike recovery out of limits
D Procedural blank Matrix Spike Duplicate RPD out of limits
J Estimated concentrations, results above MDL but less than RL

MDL Method Detection Limits
RL Reporting Limits
nd not detected
nl not listed
na not analyzed

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 5 CONTINUATION
ORGANOPHOSPHORUS PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Organophosphorus Pesticides | | | | | | | | | | | | | | | | | | | | | | | Sample Notes |
|-------------|-----------------|--------|-----------------------------|---------|--------------|-----------|-----------|-----------|------------|------------|---------------|--------------|---------------|-----------------|---------------|--------------|------------|---------|------------------|-----------|-------|------------|--------|-----------|-----------|--------------|
| | | | Azinphos methyl | Bolstar | Chlorpyrifos | Coumaphos | Demeton-o | Demeton-s | Diazinon | Dichlorvos | Dimethoate | Disulfoton | Ethoprop | Ethyl parathion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl Parathion | Mevinphos | Naled | Phorate | Ronnel | Stirophos | Tokuthion | |
| NGA #64 | LAILG-NGA-64-4 | 1/5/16 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| NGA #168 | LAILG-NGA-168-8 | 1/5/16 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Duplicate | LAILG-NGA-DUP | 1/5/16 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Equip Blank | LAILG-NGA-EB | 1/5/16 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Field Blank | LAILG-NGA-FB | 1/5/16 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| WQB | | | 80 | nl | 25 | 37 | nl | nl | 100 | 35 | 21,500 | 1,950 | 22,000 | nl | nl | 2,600 | 295 | nl | 485 | nl | 70 | 300 | nl | nl | nl | nl |
| MRL | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10.0 | 10 | 10 | 10 | 10 |

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits or ALB guidelines are presented in BOLD. Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
MRL Method Detection Limits
WQB Water Quality Benchmarks
! Estimated concentration. Field Duplicate RPD >25%.
nl not listed
nd not detected

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 4
ORGANOPHOSPHORUS PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Organophosphorus Pesticides | | | | | | | | | | | | | | | | | | | | | | | Sample Notes |
|-------------|-----------------|---------|-----------------------------|---------|--------------|-----------|-----------|-----------|------------|------------|---------------|--------------|---------------|-----------------|---------------|--------------|------------|---------|------------------|-----------|-------|------------|--------|-----------|-----------|--------------|
| | | | Azinphos methyl | Bolstar | Chlorpyrifos | Coumaphos | Demeton-o | Demeton-s | Diazinon | Dichlorvos | Dimethoate | Disulfoton | Ethoprop | Ethyl parathion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl Parathion | Mevinphos | Naled | Phorate | Ronnel | Stirophos | Tokuthion | |
| NGA #150 | LAILG-NGA-150-6 | 12/2/14 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | |
| NGA #188 | LAILG-NGA-188-1 | 12/2/14 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | |
| Duplicate | LAILG-NGA-DUP | 12/2/14 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | |
| NGA #168 | LAILG-NGA-168-7 | 5/15/15 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | |
| Equip Blank | LAILG-NGA-EB | 12/2/14 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | |
| Field Blank | LAILG-NGA- FB | 12/2/14 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | |
| WQB | | | 80 | nl | 25 | 37 | nl | nl | 100 | 35 | 21,500 | 1,950 | 22,000 | nl | nl | 2,600 | 295 | nl | 485 | nl | 70 | 300 | nl | nl | nl | nl |
| MRL | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10.0 | 10 | 10 | 10 | 10 |

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits or ALB guidelines are presented in BOLD. Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
MRL Method Detection Limits
WQB Water Quality Benchmarks
! Estimated concentration. Field Duplicate RPD >25%.
nl not listed
nd not detected

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 3
ORGANOPHOSPHORUS PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Organophosphorus Pesticides | | | | | | | | | | | | | | | | | | | | | | | Sample Notes | |
|-------------|----------------|---------|-----------------------------|---------|--------------|-----------|-----------|-----------|------------|------------|---------------|--------------|---------------|-----------------|---------------|--------------|------------|---------|------------------|-----------|-------|------------|--------|-----------|-----------|--------------|---------------|
| | | | Azinphos methyl | Bolstar | Chlorpyrifos | Coumaphos | Demeton-o | Demeton-s | Diazinon | Dichlorvos | Dimethoate | Disulfoton | Ethoprop | Ethyl parathion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl Parathion | Mevinphos | Naled | Phorate | Ronnel | Stirophos | Tokuthion | | Trichloronate |
| NGA #19 | LAILG-NGA19-7 | 2/28/14 | <10 | <10 | 22! | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | |
| NGA #26 | LAILG-NGA26-1 | 2/28/14 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 23 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | |
| NGA #124 | LAILG-NGA124-7 | 2/28/14 | <10 | <10 | 17 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 13 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | |
| NGA #178 | LAILG-NGA178-2 | 2/28/14 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | |
| NGA #184 | LAILG-NGA184-3 | 2/28/14 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | |
| Duplicate | LAILG-NGA-DUP | 2/28/14 | <10 | <10 | 31! | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | |
| Equip Blank | LAILG-NGA-EB | 2/28/14 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | |
| Field Blank | LAILG-NGA- FB | 2/28/14 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | |
| WQB | | | 80 | nl | 25 | 37 | nl | nl | 100 | 35 | 21,500 | 1,950 | 22,000 | nl | nl | 2,600 | 295 | nl | 485 | nl | 70 | 300 | nl | nl | nl | nl | |
| MRL | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10.0 | 10 | 10 | 10 | 10 |

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits or ALB guidelines are presented in BOLD. Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
MRL Method Detection Limits
WQB Water Quality Benchmarks
! Estimated concentration. Field Duplicate RPD >25%.
nl not listed
nd not detected

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
ORGANOPHOSPHORUS PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Organophosphorus Pesticides | | | | | | | | | | | | | | | | | | | | | | | Sample Notes | | | |
|-------------|-----------------|---------|-----------------------------|---------------------|----------------------------|-------------------------|---------------------|---------------------|---------------------------|------------|------------|---------------------|---------------------|-------------------|--------------------|--------------------------|---------------------|------------------------------------|--------------------------|---------------------|---------------------|---------|---------------------|-------------------------|-----------|---------------------|---------------------|----|----|
| | | | Azinphos methyl | Bolstar | Chlorpyrifos | Coumaphos | Demeton-o | Demeton-s | Diazinon | Dichlorvos | Dimethoate | Disulfoton | Ethoprop | Ethyl parathion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl Parathion | Mevinphos | Naled | Phorate | Ronnel | Stirophos | Tokuthion | | Trichloronate | | |
| NGA #4 | LAILG-NGA4-5 | 3/21/11 | nd | nd | 11000 ^{E1} | nd | nd ^{Q-02} | nd ^{Q-02} | 1000 ^{E1} | nd | nd | nd ^{MS-05} | nd ^{Q-02} | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | S4 | | |
| NGA #124 | LAILG-NGA124-6 | 3/21/11 | nd | nd | 10 | nd | nd ^{Q-02} | nd ^{Q-02} | nd | nd | nd | nd ^{MS-05} | nd ^{Q-02} | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | | | |
| NGA # 150 | LAILG-NGA 150-5 | 3/21/11 | nd | nd | 33 | nd | nd ^{Q-02} | nd ^{Q-02} | nd | nd | nd | nd ^{MS-05} | nd ^{Q-02} | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | | | |
| NGA #19 | LAILG-NGA19-6 | 3/23/11 | nd ^{MS-05,BS-L} | nd ^{MS-05} | 25 | nd | nd | nd | nd | nd | nd | nd ^{MS-05} | nd ^{BS-03} | nd | nd | nd ^{MS-05} | nd ^{BS-03} | nd | nd | nd | nd | nd | nd | nd | nd | nd | | | |
| Duplicate | LAILG-NGA-DUP | 3/21/11 | nd | nd | 11 | nd | nd ^{Q-02} | nd ^{Q-02} | nd | nd | nd | nd ^{MS-05} | nd ^{Q-02} | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | | | |
| Equip Blank | LAILG-NGA-EB | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | | | |
| Field Blank | LAILG-NGA- FB | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | | | |
| NGA #168 | LAILG-NGA168-6 | 3/17/12 | nd ^{BS-03} | nd | nd | nd ^{Q-08,A-01} | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{Q-08} | nd ^{Q-08} | nd | nd | nd ^{Q-08} | nd ^{Q-08} | nd | nd | nd | nd | nd | nd | | | |
| NGA #31 | LAILG-NGA31-4 | 3/17/12 | nd ^{BS-03} | nd | nd | nd ^{Q-08,A-01} | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{Q-08} | nd ^{Q-08} | nd | nd | nd ^{Q-08} | nd ^{Q-08} | nd | nd | nd | nd | nd | nd | | | |
| NGA #162 | LAILG-NGA162-1 | 3/17/12 | nd ^{BS-03} | nd | nd | nd ^{Q-08,A-01} | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{Q-08} | nd ^{Q-08} | nd | nd | nd ^{Q-08} | nd ^{Q-08} | nd | nd | nd | nd | nd | nd | | | |
| NGA #64 | LAILG-NGA64-3 | 3/17/12 | nd ^{BS-03} | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{MS-05} | nd | nd | nd | nd ^{MS-05} | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | | | |
| Duplicate | LAILG-NGA-DUP | 3/17/12 | nd ^{BS-03} | nd | nd | nd ^{Q-08,A-01} | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{Q-08} | nd ^{Q-08} | nd | nd | nd ^{Q-08} | nd ^{Q-08} | nd | nd | nd | nd | nd | nd | | | |
| Equip Blank | LAILG-NGA-EB | 3/17/12 | nd ^{BS-03} | nd | nd | nd ^{Q-08,A-01} | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{Q-08} | nd ^{Q-08} | nd | nd | nd ^{Q-08} | nd ^{Q-08} | nd | nd | nd | nd | nd | nd | | | |
| Field Blank | LAILG-NGA- FB | 3/17/12 | nd ^{BS-03} | nd | nd | nd ^{Q-08,A-01} | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{Q-08} | nd ^{Q-08} | nd | nd | nd ^{Q-08} | nd ^{Q-08} | nd | nd | nd | nd | nd | nd | | | |
| NGA #4 | LAILG-NGA4-6 | 3/25/12 | nd ^{BS-03} | nd | 44,000 | nd ^{BS-03} | nd ^{BS-03} | nd ^{BS-03} | nd ^{Q-12} | nd | nd | nd ^{MS-05} | nd | nd | nd | nd ^{Q-08,BS-03} | nd | 2,100 ^{Q-08,A-01a} | nd ^{Q-08} | nd ^{BS-03} | nd | nd | nd ^{BS-03} | nd | nd | nd | | | |
| NGA #170 | LAILG-NGA170-1 | 3/25/12 | nd ^{MS-05,BS-L} | nd | nd | nd ^{BS-03} | nd | nd | nd | nd | nd | nd ^{MS-05} | nd | nd | nd | nd ^{MS-05} | nd ^{Q-08} | nd | nd | nd ^{Q-08} | nd ^{MS-05} | nd | nd | nd ^{Q-08,A-01} | nd | nd | 14 ^{BS-03} | nd | nd |
| NGA #176 | LAILG-NGA176-2 | 3/25/12 | nd ^{MS-05,BS-L} | nd | nd | nd ^{BS-03} | nd | nd | nd | nd | nd | nd ^{MS-05} | nd | nd | nd | nd ^{MS-05} | nd ^{Q-08} | nd | nd | nd ^{Q-08} | nd ^{MS-05} | nd | nd | nd ^{Q-08,A-01} | nd | nd | nd ^{BS-03} | nd | nd |
| NGA #210 | LAILG-NGA210-2 | 3/25/12 | nd ^{MS-05,BS-L} | nd | nd | nd ^{BS-03} | nd | nd | nd | nd | nd | nd ^{MS-05} | nd | nd | nd | nd ^{MS-05} | nd ^{Q-08} | nd | 41 | nd ^{Q-08} | nd ^{MS-05} | nd | nd | nd ^{Q-08,A-01} | nd | nd | nd ^{BS-03} | nd | nd |
| Duplicate | LAILG-NGA-DUP | 3/25/12 | nd ^{BS-03} | nd | 42,000 | nd ^{BS-03} | nd ^{BS-03} | nd ^{BS-03} | nd ^{Q-12} | nd | nd | nd ^{MS-05} | nd | nd | nd | nd ^{Q-08,BS-03} | nd | 2,000 ^{Q-08,A-01a} | nd ^{Q-08} | nd ^{BS-03} | nd | nd | nd ^{BS-03} | nd | nd | nd ^{BS-03} | nd | nd | |
| Equip Blank | LAILG-NGA-EB | 3/25/12 | nd ^{BS-03} | nd | nd | nd ^{BS-03} | nd ^{BS-03} | nd ^{BS-03} | nd ^{Q-12} | nd | nd | nd ^{MS-05} | nd | nd | nd | nd ^{Q-08,BS-03} | nd | nd | nd ^{Q-08,A-01a} | nd ^{Q-08} | nd ^{BS-03} | nd | nd | nd ^{BS-03} | nd | nd | nd ^{BS-03} | nd | nd |
| Field Blank | LAILG-NGA- FB | 3/25/12 | nd ^{BS-03} | nd | nd | nd ^{BS-03} | nd ^{BS-03} | nd ^{BS-03} | nd ^{Q-12} | nd | nd | nd ^{MS-05} | nd | nd | nd | nd ^{Q-08,BS-03} | nd | nd | nd ^{Q-08,A-01a} | nd ^{Q-08} | nd ^{BS-03} | nd | nd | nd ^{BS-03} | nd | nd | nd ^{BS-03} | nd | nd |
| CWIL Limits | | | nl | nl | 25 | nl | nl | nl | 100 | nl | nl | nl ⁽¹⁾ | nl ⁽¹⁾ | nl ⁽¹⁾ | nl | nl | nl | nl ⁽¹⁾ | nl | nl | nl ⁽¹⁾ | nl | nl | nl | nl | nl | | | |
| MDL | | | 5.5 | 4.6 | 6.9 | 5.1 | 10 | 10 | 5.2 | 2.9 | 6.2 | 10 | 6.7 | 5.4 | 2.9 | 3.8 | 7.6 | 5.8 | 6.3 | 4.2 | 7.6 | 3.0 | 4.1 | 3.1 | 7.8 | 6.7 | | | |
| RL | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | |

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits or ALB guidelines are presented in BOLD. Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
MDL Method Detection Limits
RL Reporting Limits
FD Estimated concentration. Field Duplicate RPD >25%.
nl not listed
nd not detected
(1) Although no discharge limits were set in the CWIL, the US EPA has set an aquatic life benchmark for this constituent. See Table 7.

E1 The concentration indicated for this analyte is an estimated value above the calibration range.
S4 The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect.
Q-08 High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
A-01 High bias in MS and MSD. However, ll-cv has an acceptable recovery. The batch was accepted since all samples were ND for this analyte.
A-01a Low recovery in BS and high recoveries in both MS/MSD. However, ll-cv has an acceptable recovery. The batch was accepted since samples were either ND or yielded very high results.
Q-12 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
Q-02 Low recovery of this analyte in the QC sample. The analysis of the low level standard produced acceptable recovery indicating that the sample result might be accurately reported as non-detect.
MS-05 The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BS-L The recovery of this analyte in the BS/LCS was below the control limit. Sample result is suspect.
BS-03 The recovery of this analyte in the BS/LCS was outside the control limits. The sample result was accepted based on another acceptable BS/LCS and/or MS and MSD that meet BS criteria.

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
ORGANOPHOSPHORUS PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Organophosphorus Pesticides | | | | | | | | | | | | | | | | | | |
|-------------|-----------------|----------|-----------------------------|------------------|------------------|--------------------------------------|------------------|-------------------|-------------------|-------------------|------------------|------------------|--------------------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|---------------|
| | | | Bolstar | Chlorpyrifos | Demeton | Diazinon | Dichlorvos | Dimethoate | Disulfoton | Ethoprop | Fenclorophos | Fensulfothion | Fenthion | Malathion | Merphos | Methyl Parathion | Mevinphos | Phorate | Tetrachlorvinphos | Tokuthion | Trichloronate |
| NGA #110 | LAILG-NGA110-1 | 1/4/08 | nd | 88.5 | nd | 534.8 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #189 | LAILG-NGA189-1 | 1/4/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #19 | LAILG-NGA19-3 | 1/5/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #124 | LAILG-NGA124-3 | 1/5/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #183 | LAILG-NGA183-4 | 1/5/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #4 | LAILG-NGA4-2 | 1/23/08 | nd | 153.8 | nd | 2,212.1 | nd | nd | nd | nd | nd | nd | 15,453.2 | nd | nd | nd | nd | nd | nd | nd | |
| NGA #53 | LAILG-NGA53-2 | 1/23/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #64 | LAILG-NGA64-1 | 1/23/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #130 | LAILG-NGA130-3 | 1/24/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #182 | LAILG-NGA182-2 | 1/24/08 | nd | nd | nd | nd | nd | 13.3 | nd | nd | nd | nd | 19.9 | nd | nd | nd | nd | nd | nd | nd | |
| NGA #168 | LAILG-NGA168-4 | 1/25/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 19 | LAILG-NGA19-4 | 8/12/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 4 | LAILG-NGA 4-3 | 8/13/08 | nd ^{M4} | nd ^{M4} | nd ^{M4} | 6,058.9 ^{O1, O2, FD} | nd ^{M4} | nd ^{M4} | nd ^{M4} | nd ^{M4} | nd ^{M4} | nd ^{M4} | 1,148,630 ^{O1} | nd ^{M4} | nd ^{M4} | nd ^{M4} | nd ^{M4} | nd ^{M4} | nd ^{M4} | nd ^{M4} | |
| Duplicate | LAILG-NGA-DUP | 8/13/08 | nd | nd | nd | 13586.8 ^{FD} | nd | nd | nd | nd | nd | nd | 1,117,145 | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 31 | LAILG-NGA 31-1 | 9/23/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| Duplicate | LAILG-NGA-DUP | 9/23/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 19 | LAILG-NGA 19-5 | 11/26/08 | nd | 130.1 | nd | 32.6 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 210 | LAILG-NGA 210-1 | 11/26/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 56.4 | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 184 | LAILG-NGA 184-1 | 11/26/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| Duplicate | LAILG-NGA-DUP | 11/26/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 124 | LAILG-NGA 124-4 | 11/26/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 31 | LAILG-NGA 31-2 | 11/26/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 130 | LAILG-NGA 130-4 | 11/26/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 150 | LAILG-NGA 150-3 | 11/26/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 25 | LAILG-NGA 25-1 | 11/26/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 150 | LAILG-NGA 150-4 | 12/15/08 | nd | 90.2 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 124 | LAILG-NGA 124-5 | 12/15/08 | nd | 21 | nd | 98.5 | nd | nd | nd | nd | nd | nd | 85.3 | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 189 | LAILG-NGA 189-2 | 12/15/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 26.9 | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 110 | LAILG-NGA 110-2 | 12/15/08 | nd | nd | nd | 79.8 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 31 | LAILG-NGA 31-3 | 12/15/08 | nd | 44.5 | nd | nd | nd | nd | nd | nd | nd | nd | 3,433.9 | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 184 | LAILG-NGA 184-2 | 12/15/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 130 | LAILG-NGA 130-5 | 12/15/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 85.2 | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 178 | LAILG-NGA 178-1 | 12/15/08 | nd | nd | nd | nd | nd | nd | nd ^{M4} | nd | nd | nd ^{M4} | nd | nd | nd | nd | nd | nd ^{M4} | nd | nd | |
| Duplicate | LAILG-NGA-DUP | 12/15/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 64 | LAILG-NGA 64-2 | 12/15/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 168 | LAILG-NGA 168-5 | 12/15/08 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 38.9 | nd | nd | nd | nd | nd | nd | nd | |
| NGA # 4 | LAILG-NGA 4-4 | 12/15/08 | nd | 590.9 | nd | 859 | nd | nd | nd | nd | nd | nd | 102,357.2 | nd | nd | nd | nd | nd | nd | nd | |
| CWIL Limits | | | nl | 25 | nl | 100 | nl | nl ⁽¹⁾ | nl ⁽¹⁾ | nl ⁽¹⁾ | nl | nl | nl ⁽¹⁾ | nl | nl ⁽¹⁾ | nl | nl ⁽¹⁾ | nl | nl | nl | |
| MDL | | | 2 | 1 | 1 | 2 | 3 | 3 | 1 | 1 | 2 | 1 | 2 | 3 | 1 | 1 | 8 | 6 | 2 | 3 | 1 |
| RL | | | 4 | 2 | 2 | 4 | 6 | 6 | 2 | 2 | 4 | 2 | 4 | 6 | 2 | 2 | 16 | 12 | 4 | 6 | 2 |

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits or ALB guidelines are presented in BOLD. Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
MDL Method Detection Limits
RL Reporting Limits
FD Estimated concentration. Field Duplicate RPD >25%.
nl not listed
nd not detected
(1) Although no discharge limits were set in the CWIL, the US EPA has set an aquatic life benchmark for this constituent. See Table 7.

M4 Spike or surrogate compound recovery was out of control due to matrix interference. The associated method blank spike or surrogate compound was in control and therefore the sample data was reported without further clarification.

Q1 Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration.

Q2 The sample RPD was out of control. Sample is heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices.

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
ORGANOPHOSPHORUS PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Organophosphorus Pesticides | | | | | | | | | | | | | | | | | | |
|-------------|-------------------|----------|-----------------------------|----------------|---------|--------------|------------|------------|-----------------|----------|-------------|---------------|----------|-----------------|---------|------------------|-----------|-----------------|-------------------|-----------|---------------|
| | | | Bolstar | Chlorpyrifos | Demeton | Diazinon | Dichlorvos | Dimethoate | Disulfoton | Ethoprop | Fenclorphos | Fensulfothion | Fenthion | Malathion | Merphos | Methyl Parathion | Mevinphos | Phorate | Tetrachlorvinphos | Tokuthion | Trichloronate |
| NGA #130 | NGA-#130-LAILG-1 | 8/6/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #183 | NGA-#183-LAILG-1 | 8/6/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #19 | NGA-#19-LAILG-1 | 8/13/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #124 | NGA-#124-LAILG-1 | 8/13/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #168 | NGA-#168-LAILG-1 | 8/13/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA BLANK | NGA LAILG-BLANK-1 | 8/13/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA FBLL | NGA-LAILG-FBLL | 8/21/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA EQBLI | NGA-LAILG-EQBLI | 8/21/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #150 | NGA-#150-LAILG | 9/25/07 | nd | nd | nd | nd | nd | nd | nd ^D | nd | nd | nd | nd | nd ^D | nd | nd | nd | nd ^D | nd | nd | |
| NGA #183 | ILG-#183 | 9/26/07 | nd | nd | nd | nd | nd | nd | nd ^D | nd | nd | nd | nd | nd ^D | nd | nd | nd | nd ^D | nd | nd | |
| NGA #183-DU | ILGNGA-#Dup | 9/26/07 | nd | nd | nd | nd | nd | nd | nd ^D | nd | nd | nd | nd | nd ^D | nd | nd | nd | nd ^D | nd | nd | |
| NGA #EQUIP | ILGNGA-#Equip | 9/26/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #FIELD | ILGNGA-#FIELD-2 | 9/28/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #168-2 | ILGNGA-#168-2 | 9/28/07 | nd | nd | nd | nd | nd | nd | nd ^D | nd | nd | nd | nd | nd ^D | nd | nd | nd | nd ^D | nd | nd | |
| NGA #168 | NGA-#168-LAILG-3 | 11/30/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 8.9 | nd | nd | nd | nd | nd | nd | |
| NGA #182 | NGA #182-LAILG-1 | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #182-DU | NGA-Duplicate | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #4 | NGA #4-LAILG-1 | 12/7/07 | nd | 1,122.6 | nd | 175.2 | 11.3 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #130 | NGA #130-LAILG-2 | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #150 | NGA #150-LAILG-2 | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #124 | NGA-#124-LAILG-2 | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #EQUIP | NGA-equip blank | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #FIELD | Field Blank-2 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #176 | NGA-#176-LAILG-1 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #183 | LAILG-NGA#183-3 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #19 | LAILG-NGA#19-2 | 12/18/07 | nd | nd | nd | 15 | nd | nd | nd | nd | nd | nd | 2,291.3 | nd | nd | nd | nd | nd | nd | nd | |
| NGA #13 | LAILG-NGA#13-1 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #53 | LAILG-NGA#53-1 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| CWIL Limits | | | nl | 25 | nl | 100 | nl | nl | nl | nl | nl | nl | nl | nl | nl | nl | nl | nl | nl | nl | |
| MDL | | | 2 | 1 | 1 | 2 | 3 | 3 | 1 | 1 | 2 | 1 | 2 | 3 | 1 | 1 | 8 | 6 | 2 | 3 | 1 |
| RL | | | 4 | 2 | 2 | 4 | 6 | 6 | 2 | 2 | 4 | 2 | 4 | 6 | 2 | 2 | 16 | 12 | 4 | 6 | 2 |

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
D Procedural blank Matrix Spike Duplicate RPD out of limits
nl not listed

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 5 CONTINUATION
PYRETHROID PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Pyrethroid Pesticides | | | | | | | | | | | | | Sample Notes | |
|-------------|-----------------|--------|-----------------------|------------|-------------|--------------|----------------------------|-----------|------------------------|----------------------------|---------------|----------------|-------------|--------------|--------------|--------------|-------------|
| | | | Allethrin | Bifenthrin | Cyfluthrin | Cypermethrin | Deltamethrin /Tralomethrin | Dichloran | Fenpopathrin (Danitol) | Fenvalerate /Esfenvalerate | L-Cyhalothrin | Pendimethalin | Permethrin | Prallethrin | Sumithrin | | Telfluthrin |
| NGA #64 | LAILG-NGA-64-4 | 1/5/16 | <2.0 | 2.0 | <2.0 | <2.0 | <2.0 | 2.6 | <2.0 | <2.0 | <2.0 | 2.7 | <2.0 | <2.0 | <10 | <2.0 | |
| NGA #168 | LAILG-NGA-168-8 | 1/5/16 | <2.0 | 310 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 69 | <2.0 | <2.0 | <10 | <2.0 | |
| Duplicate | LAILG-NGA-DUP | 1/5/16 | <2.0 | 250 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 50 | <2.0 | <2.0 | <10 | <2.0 | |
| Equip Blank | LAILG-NGA-EB | 1/5/16 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <5.0 | <2.0 | <10 | <2.0 | |
| Field Blank | LAILG-NGA-FB | 1/5/16 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <5.0 | <2.0 | <10 | <2.0 | |
| WQB | | | 1,050 | 800 | 12.5 | 210 | 55 | nl | 265 | 25 | 3.5 | 140,000 | 10.6 | 3,100 | 2,200 | 35 | |
| MRL | | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 5.0 | 2.0 | 10 | 2.0 | |

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in BOLD. Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

| | | | |
|------|---|------|---|
| CWIL | Conditional waiver for irrigated lands, order #R4-2005-0080 | M-04 | Visual evaluation of the sample indicates the RPD or QC spike is above the control limit due to a non-homogeneous sample matrix |
| WQB | Water Quality Benchmark | S-GC | Surrogate recovery outside of control limits due to a possible matrix effect. The data was accepted based on valid recovery of the remaining surrogate. |
| nl | not listed | | |

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 4
PYRETHROID PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Pyrethroid Pesticides | | | | | | | | | | | | | Sample Notes | | |
|-------------|-----------------|---------|-----------------------|-------------|-------------|--------------|----------------------------|-----------|------------------------|----------------------------|---------------|----------------|-------------|--------------|--------------|--------------|-------------|--|
| | | | Allethrin | Bifenthrin | Cyfluthrin | Cypermethrin | Deltamethrin /Tralomethrin | Dichloran | Fenpopathrin (Danitol) | Fenvalerate /Esfenvalerate | L-Cyhalothrin | Pendimethalin | Permethrin | Prallethrin | Sumithrin | | Telfluthrin | |
| NGA #150 | LAILG-NGA-150-6 | 12/2/14 | <2.0 | 4000 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 370 | <2.0 | <2.0 | <2.0 | 1000 | <2.0 | <10 | <2.0 | |
| NGA #188 | LAILG-NGA-188-1 | 12/2/14 | <2.0 | 51 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 30 | <2.0 | <2.0 | <10 | <2.0 | |
| Duplicate | LAILG-NGA-DUP | 12/2/14 | <2.0 | 41 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 30 | <2.0 | <2.0 | <10 | <2.0 | |
| NGA #168 | LAILG-NGA-168-7 | 5/15/15 | <2.0 | 22 | <2.0 | <2.0 | <2.0 | <2.0 | 2.3 | <2.0 | <2.0 | <2.0 | 460 | <5.0 | <2.0 | <10 | <2.0 | |
| Equip Blank | LAILG-NGA-EB | 12/2/14 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <5.0 | <2.0 | <10 | <2.0 | |
| Field Blank | LAILG-NGA- FB | 12/2/14 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <5.0 | <2.0 | <10 | <2.0 | |
| WQB | | | 1,050 | 800 | 12.5 | 210 | 55 | nl | 265 | 25 | 3.5 | 140,000 | 10.6 | 3,100 | 2,200 | 35 | | |
| MRL | | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 5.0 | 2.0 | 10 | 2.0 | |

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in BOLD. Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL
WQB
nl

Conditional waiver for irrigated lands, order #R4-2005-0080
Water Quality Benchmark
not listed

M-04
S-GC

Visual evaluation of the sample indicates the RPD or QC spike is above the control limit due to a non-homogeneous sample matrix
Surrogate recovery outside of control limits due to a possible matrix effect. The data was accepted based on valid recovery of the remaining surrogate.

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 3
PYRETHROID PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Pyrethroid Pesticides | | | | | | | | | | | | | Sample Notes | | |
|-------------|----------------|---------|-----------------------|--------------|-------------|--------------|----------------------------|-----------|------------------------|----------------------------|---------------|----------------|-------------|--------------|--------------|--------------|-------------|------------|
| | | | Allethrin | Bifenthrin | Cyfluthrin | Cypermethrin | Deltamethrin /Tralomethrin | Dichloran | Fenpopathrin (Danitol) | Fenvalerate /Esfenvalerate | L-Cyhalothrin | Pendimethalin | Permethrin | Prallethrin | Sumithrin | | Telfluthrin | |
| NGA #19 | LAILG-NGA19-7 | 2/28/14 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 28 | <2.0 | <2.0 | <2.0 | <5.0 | <2.0 | <10 | <2.0 | |
| NGA #26 | LAILG-NGA26-1 | 2/28/14 | <2.0 | 9.4 | 20 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <5.0 | <2.0 | <10 | <2.0 | |
| NGA #124 | LAILG-NGA124-7 | 2/28/14 | <10 | 3,700 | <10 | <10 | <10 | <10 | <10 | 170 | <10 | <10 | <10 | 46 | <10 | <50 | <10 | M-04, S-GC |
| NGA #178 | LAILG-NGA178-2 | 2/28/14 | <20 | 40 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <50 | <20 | <100 | <20 | M-04, S-GC |
| NGA #184 | LAILG-NGA184-3 | 2/28/14 | <2.0 | 2.5 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <5.0 | <2.0 | <10 | <2.0 | |
| Duplicate | LAILG-NGA-DUP | 2/28/14 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 32 | <2.0 | <2.0 | <2.0 | <5.0 | <2.0 | <10 | <2.0 | |
| Equip Blank | LAILG-NGA-EB | 2/28/14 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <5.0 | <2.0 | <10 | <2.0 | S-GC |
| Field Blank | LAILG-NGA- FB | 2/28/14 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <5.0 | <2.0 | <10 | <2.0 | S-GC |
| WQB | | | 1,050 | 800 | 12.5 | 210 | 55 | nl | 265 | 25 | 3.5 | 140,000 | 10.6 | 3,100 | 2,200 | 35 | | |
| MRL | | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 5.0 | 2.0 | 10 | 2.0 | |

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in BOLD. Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL
WQB
nl

Conditional waiver for irrigated lands, order #R4-2005-0080
Water Quality Benchmark
not listed

M-04
S-GC

Visual evaluation of the sample indicates the RPD or QC spike is above the control limit due to a non-homogeneous sample matrix
Surrogate recovery outside of control limits due to a possible matrix effect. The data was accepted based on valid recovery of the remaining surrogate.

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
PYRETHROID PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Pyrethroid Pesticides | | | | | | | | | | | | | Sample Notes | |
|-------------|-----------------|---------|-----------------------|-------------------|------------|------------------|--------------|---------------------|---------------|-------------|---------------|------------------------|-----------------------------|-------------|-----------|---------------------|--------------|
| | | | Allethrin | Bifenthrin | Cyfluthrin | Cypermethrin | Deltamethrin | Dichloran | Esfenvalerate | Fenvalerate | L-Cyhalothrin | Pendimethalin | Permethrin | Prallethrin | Sumithrin | | Tellfluthrin |
| NGA #4 | LAILG-NGA4-5 | 3/21/11 | nd | 22 | nd | nd | nd | nd | nd | nd | nd | 3.3 | 1600 ^{E1} | nd | nd | nd | S4 |
| NGA #124 | LAILG-NGA124-6 | 3/21/11 | nd | 88 | nd | 78 ^{FD} | nd | nd | nd | nd | nd | 3.8 | nd | nd | nd | nd | |
| NGA # 150 | LAILG-NGA 150-5 | 3/21/11 | nd | 480 ^{E1} | nd | nd | nd | nd | nd | nd | nd | nd | 48 | nd | nd | nd | |
| NGA #19 | LAILG-NGA19-6 | 3/23/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | 29 | nd | nd | nd | nd | |
| Duplicate | LAILG-NGA-DUP | 3/21/11 | nd | 74 | nd | 57 | nd | nd | nd | nd | nd | 3.7 | nd | nd | nd | nd | |
| Equip Blank | LAILG-NGA-EB | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| Field Blank | LAILG-NGA- FB | 3/21/11 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | |
| NGA #168 | LAILG-NGA168-6 | 3/17/12 | nd | 54 | nd | nd | nd | nd ^{BS-03} | nd | nd | nd | 18 | nd | nd | nd | nd | S4 |
| NGA #31 | LAILG-NGA31-4 | 3/17/12 | nd | 2.9 | nd | nd | nd | nd ^{BS-03} | nd | nd | nd | 33 | nd | nd | nd | nd | S4 |
| NGA #162 | LAILG-NGA162-1 | 3/17/12 | nd | 11 | nd | nd | 230 | nd ^{BS-03} | nd | nd | nd | 23 | nd | nd | nd | nd | S4 |
| NGA #64 | LAILG-NGA64-3 | 3/17/12 | nd | nd | nd | nd | nd | nd ^{BS-03} | nd | nd | nd | 22 | nd | nd | nd | nd | S4 |
| Duplicate | LAILG-NGA-DUP | 3/17/12 | nd | nd | nd | nd | nd | nd ^{BS-03} | nd | nd | nd | 20 | nd | nd | nd | nd | S4 |
| Equip Blank | LAILG-NGA-EB | 3/17/12 | nd | nd | nd | nd | nd | nd ^{BS-03} | nd | nd | nd | nd | nd | nd | nd | nd | |
| Field Blank | LAILG-NGA- FB | 3/17/12 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | S4 |
| NGA #4 | LAILG-NGA4-6 | 3/25/12 | nd ^{BS-03} | 9.7 | nd | nd | nd | nd | nd | nd | nd | nd ^{FD,BS-03} | 100 ^{FD} | nd | nd | nd ^{BS-03} | S4 |
| NGA #170 | LAILG-NGA170-1 | 3/25/12 | nd ^{BS-03} | 5.8 | nd | nd | nd | nd | nd | nd | nd | 11 ^{BS-03} | nd ^{BS-03} | nd | nd | nd ^{BS-03} | S4 |
| NGA #176 | LAILG-NGA176-2 | 3/25/12 | nd ^{BS-03} | 270 | nd | nd | nd | nd | nd | nd | nd | 35 ^{BS-03} | nd ^{BS-03} | nd | nd | nd ^{BS-03} | S4 |
| NGA #210 | LAILG-NGA210-2 | 3/25/12 | nd ^{BS-03} | nd | nd | nd | nd | 80 | nd | nd | nd | 2.7 ^{BS-03} | nd ^{BS-03} | nd | nd | nd ^{BS-03} | S4 |
| Duplicate | LAILG-NGA-DUP | 3/25/12 | nd ^{BS-03} | 12 | nd | nd | nd | nd | nd | nd | nd | 47 ^{BS-03} | 130 ^{BS-03} | nd | nd | nd ^{BS-03} | S4 |
| Equip Blank | LAILG-NGA-EB | 3/25/12 | nd ^{BS-03} | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{BS-03} | nd ^{BS-03} | nd | nd | nd ^{BS-03} | S4 |
| Field Blank | LAILG-NGA- FB | 3/25/12 | nd ^{BS-03} | nd | nd | nd | nd | nd | nd | nd | nd | nd ^{BS-03} | nd ^{BS-03} | 40 | nd | nd ^{BS-03} | S4 |
| CWIL Limits | | | nl | nl | nl | nl | nl | nl | nl | nl | nl | nl | nl ⁽¹⁾ | nl | nl | nl | |
| MDL | | | 0.85 | 0.79 | 0.83 | 0.66 | 1.9 | 0.80 | 0.98 | 0.98 | 1.2 | 0.50 | 5.0 | 0.92 | 2.4 | 0.93 | |
| RL | | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 5.0 | 2.0 | 10 | 2.0 | |

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in BOLD. **Footnotes in BOLD indicate estimated concentration.** All other footnotes are for reference purposes; data was not deemed to be qualified as estim

| | | | |
|------|--|-------|---|
| CWIL | Conditional waiver for irrigated lands, order #R4-2005-0080 | E1 | The concentration indicated for this analyte is an estimated value above the calibration range. |
| FD | Estimated concentration. Field Duplicate RPD >25%. | S4 | The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect |
| nl | not listed | Q-12 | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data. |
| nd | not detected | | |
| (1) | Although no discharge limits were set in the CWIL, the US EPA has set an aquatic life benchmark for this constituent. See Table 8. | BS-L | The recovery of this analyte in the BS/LCS was below the control limit. Sample result is suspect. |
| | | BS-03 | The recovery of this analyte in the BS/LCS was outside the control limits. The sample result was accepted based on another acceptable BS/LCS and/or MS and MSD that meet BS criteria. |
| | | A-01a | Low recovery in BS and high recoveries in both MS/MSD. However, LL-cv has an acceptable recovery. The batch was accepted since samples were either ND or yielded very high results. |

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
PYRETHROID PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Pyrethroid Pesticides | | | | | | | | | | | | |
|--------------|-------------------|----------|-----------------------|-------------------|-------------------|------------------|---------|--------------|---------------|-------------|------------------|-------------------|------------|-------------|------------|
| | | | Allethrin | Bifenthrin | Cyfluthrin | Cypermethrin | Danitol | Deltamethrin | Esfenvalerate | Fenvalerate | Fluvalinate | L-Cyhalothrin | Permethrin | Prallethrin | Resmethrin |
| NGA #130 | NGA-#130-LAILG-1 | 8/6/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #183 | NGA-#183-LAILG-1 | 8/6/07 | nd | 21 ^J | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #19 | NGA-#19-LAILG-1 | 8/13/07 | nd | 13.7 ^J | 24.2 ^J | nd | 465.5 | nd | nd | nd | 5 ^J | nd | 444.9 | nd | nd |
| NGA #124 | NGA-#124-LAILG-1 | 8/13/07 | nd | 62.2 | nd | nd | 74.7 | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #168 | NGA-#168-LAILG-1 | 8/13/07 | nd | 1348.2 | 19.8 ^J | nd | nd | nd | nd | nd | nd | 11.1 ^J | nd | nd | nd |
| NGA BLANK | NGA LAILG-BLANK-1 | 8/13/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA FBLI | NGA-LAILG-FBLI | 8/21/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA EQBLI | NGA-LAILG-EQBLI | 8/21/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #150 | NGA-#150-LAILG | 9/25/07 | nd | 19,426.6 | 153.4 | nd | nd | nd | nd | nd | 515.2 | nd | 5,208.8 | nd | nd |
| NGA #183 | ILG-#183 | 9/26/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #183-DUP | ILGNGA-#Dup | 9/26/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #EQUIP | ILGNGA-#Equip | 9/26/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #FIELD | ILGNGA-#FIELD-2 | 9/28/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #168-2 | ILGNGA-#168-2 | 9/28/07 | nd | 964 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #168 | NGA-#168-LAILG-3 | 11/30/07 | nd | nd | 1.4 ^J | 1.6 ^J | 463.1 | nd | nd | nd | nd | nd | nd | nd | na |
| NGA #182 | NGA #182-LAILG-1 | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | na |
| NGA #182-DUP | NGA-Duplicate | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | na |
| NGA #4 | NGA #4-LAILG-1 | 12/7/07 | nd | 10.7 | 30.6 | nd | 1,940.5 | 69 | nd | nd | 1.6 ^J | 55.1 | nd | nd | na |
| NGA #130 | NGA #130-LAILG-2 | 12/7/07 | nd | 944.6 | 14.2 | nd | 73.5 | nd | nd | nd | 33.5 | nd | 327.3 | nd | na |
| NGA #150 | NGA #150-LAILG-2 | 12/7/07 | nd | 1,566.7 | nd | nd | nd | nd | nd | nd | 17.9 | nd | 237.8 | nd | na |
| NGA #124 | NGA-#124-LAILG-2 | 12/7/07 | nd | 3,083.4 | 183.8 | nd | 150.5 | 180.3 | nd | nd | 32.3 | 3.1 | 70.9 | nd | na |
| NGA #EQUIP | NGA-equip blank | 12/7/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #FIELD | Field Blank-2 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| NGA #176 | NGA-#176-LAILG-1 | 12/18/07 | nd | 870.5 | nd | nd | 3.4 | nd | nd | nd | nd | nd | nd | nd | na |
| NGA #183 | LAILG-NGA#183-3 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | na |
| NGA #19 | LAILG-NGA#19-2 | 12/18/07 | nd | nd | 11.5 | nd | 449.5 | nd | nd | nd | 6.6 | nd | 1,346.4 | nd | na |
| NGA #13 | LAILG-NGA#13-1 | 12/18/07 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | na |
| NGA #53 | LAILG-NGA#53-1 | 12/18/07 | nd | 8 | nd | nd | nd | nd | nd | nd | nd | nd | nd | 3.5 | na |
| CWIL Limits | | | nl | nl | nl | nl | nl | nl | nl | nl | nl | nl | nl | nl | nl |
| MDL | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| RL | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
na not analyzed
J Estimated concentration, results above MDL but below RL

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 5 CONTINUATION
TOXICITY RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Ceriodaphnia | | Fathead Minnow | | Selenastrum | TIE | |
|----------|-----------------|--------|--------------|--------------|----------------|--------|-------------|------|---|
| | | | Survival | Reproduction | Survival | Growth | Growth | Date | Result |
| NGA #64 | LAILG-NGA-64-4 | 1/5/16 | 100.00% | N | 100.00% | N | N | | |
| NGA #168 | LAILG-NGA-168-8 | 1/5/16 | 100.00% | N | 100.00% | N | Y | | No TIE, IC50 > 50% for Selenastrum (75.35%) |

Y significantly different from control group
N no significant difference between control group
P partial toxicity. Toxicity high enough to exhibit effects, but not significant enough to initiate a successful TIE (Typically needs a TUC of greater than 2
NR not required

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 4
TOXICITY RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Ceriodaphnia | | Fathead Minnow | | Selenastrum | TIE | |
|----------|-----------------|---------|--------------|--------------|----------------|--------|-------------|------|--|
| | | | Survival | Reproduction | Survival | Growth | Growth | Date | Result |
| NGA #150 | LAILG-NGA-150-6 | 12/2/14 | 100.00% | P | 100.00% | N | Y | | No TIE, IC50 > 50% for Selenastrum (>100%) |
| NGA #188 | LAILG-NGA-188-1 | 12/2/14 | 100.00% | N | 100.00% | N | N | | |
| NGA #168 | LAILG-NGA-168-7 | 5/15/15 | 100.00% | N | 100.00% | N | N | | |

Y significantly different from control group
N no significant difference between control group
P partial toxicity. Toxicity high enough to exhibit effects, but not significant enough to initiate a successful TIE (Typically needs a TUc of greater than 2)
NR not required

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 3
TOXICITY RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Ceriodaphnia | | Fathead Minnow | | Selenastrum | TIE | |
|----------|----------------|---------|--------------|--------------|----------------|--------|-------------|------|---|
| | | | Survival | Reproduction | Survival | Growth | Growth | Date | Result |
| NGA #19 | LAILG-NGA19-7 | 2/28/14 | 100.00% | N | 100.00% | N | Y | | No TIE, IC50 > 50% for Selenastrum (87.03%) |
| NGA #26 | LAILG-NGA26-1 | 2/28/14 | 100.00% | N | 100.00% | N | N | | |
| NGA #124 | LAILG-NGA124-7 | 2/28/14 | 100.00% | N | 100.00% | N | Y | | No TIE, IC50 > 50% for Selenastrum (>100%) |
| NGA #178 | LAILG-NGA178-2 | 2/28/14 | 100.00% | N | 100.00% | N | Y | | No TIE, IC50 > 50% for Selenastrum (97.98%) |
| NGA #184 | LAILG-NGA184-3 | 2/28/14 | 100.00% | N | 100.00% | N | Y | | No TIE, IC50 > 50% for Selenastrum (>100%) |

Y significantly different from control group
N no significant difference between control group
P partial toxicity. Toxicity high enough to exhibit effects, but not significant enough to initiate a successful TIE (Typically needs a TUC of greater than 2)
NR not required

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
TOXICITY RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Ceriodaphnia | | Fathead Minnow | | Selenastrum | TIE | |
|-----------|-----------------|---------|--------------|--------------|----------------|----------|-------------|---------|--|
| | | | Survival | Reproduction | Survival | Growth | Growth | Date | Result |
| NGA #4 | LAILG-NGA4-5 | 3/21/11 | 0.00% | Y | 15.00% | Y | Y | 3/27/12 | Non-polar organics and organophosphates |
| NGA #124 | LAILG-NGA124-6 | 3/21/11 | 90.00% | N | 100.00% | N | N | | |
| NGA # 150 | LAILG-NGA 150-5 | 3/21/11 | 100.00% | N | 100.00% | N | Y | 3/27/12 | Organophosphates |
| NGA #19 | LAILG-NGA19-6 | 3/23/11 | 100.00% | Y | 0.00% | Y | Y | 3/27/12 | TIE was initiated, did not show an observed effect |
| NGA #168 | LAILG-NGA168-6 | 3/17/12 | 100.00% | N | 95.00% | N | N | | |
| NGA #31 | LAILG-NGA31-4 | 3/17/12 | 70.00% | Y | 90.00% | N | Y | 3/24/12 | Non-polar organic compounds and metals |
| NGA #162 | LAILG-NGA162-1 | 3/17/12 | 100.00% | N | 96.67% | N | N | | |
| NGA #64 | LAILG-NGA64-3 | 3/17/12 | 90.00% | N | 100.00% | N | N | | |

Y significantly different from control group
N no significant difference between control group
P partial toxicity. Toxicity high enough to exhibit effects, but not significant enough to initiate a successful TIE (Typically needs a TUc of greater than 2
NR not required

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
TOXICITY RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample # | Date | Ceriodaphnia | | Fathead Minnow | | Selenastrum | TIE | | |
|-----------|-----------------|----------|---|--------------|----------------|--------|-------------|----------|---|--|
| | | | Survival | Reproduction | Survival | Growth | Growth | Date | Result | |
| NGA #110 | LAILG-NGA110-1 | 1/4/08 | 90.00% | N | 80.00% | N | N | | | |
| NGA #189 | LAILG-NGA189-1 | 1/4/08 | 100.00% | N | 91.67% | N | Y | | | |
| NGA #19 | LAILG-NGA19-3 | 1/5/08 | TIE initiated based in results from sample LAILG-NGA#19-2 | | | | | 1/8/08 | TIE was initiated, did not show an observed effect | |
| NGA #124 | LAILG-NGA124-3 | 1/5/08 | TIE initiated based in results from sample NGA #124-LAILG-2 | | | | | 1/8/08 | TIE was initiated, did not show an observed effect | |
| NGA #4 | LAILG-NGA4-2 | 1/23/08 | TIE initiated based in results from sample NGA #4-LAILG-1 | | | | | 1/24/08 | Non-polar organic compounds | |
| NGA #53 | LAILG-NGA53-2 | 1/23/08 | TIE initiated based in results from sample NGA #53-LAILG-1 | | | | | 1/24/08 | TIE was initiated, did not show an observed effect | |
| NGA #64 | LAILG-NGA64-1 | 1/23/08 | 100.00% | Y | 91.67% | N | N | | | |
| NGA #182 | LAILG-NGA182-2 | 1/23/08 | TIE initiated based in results from sample NGA #182-LAILG-1 | | | | | 1/24/08 | TIE was initiated, did not show an observed effect | |
| NGA #19 | LAILG-NGA 19-4 | 8/12/08 | 90.00% | N | NR | | NR | | | |
| NGA # 4 | LAILG-NGA 4-3 | 8/13/08 | 0.00% | Y | NR | | NR | 8/26/08 | Non-polar organics and particulate-bound toxicants | |
| NGA # 31 | LAILG-NGA 31-1 | 9/23/08 | 20.00% | Y | NR | | NR | | | |
| NGA # 19 | LAILG-NGA19-5 | 11/26/08 | 70.00% | Y | NR | | NR | | | |
| NGA # 210 | LAILG-NGA 210-1 | 11/26/08 | 90.00% | P | 98.33% | N | N | | | |
| NGA # 184 | LAILG-NGA 184-1 | 11/26/08 | 80.00% | P | 100.00% | N | N | | | |
| NGA # 124 | LAILG-NGA 124-4 | 11/26/08 | 0.00% | Y | NR | | NR | 12/9/08 | Volatile compounds | |
| NGA #31 | LAILG-NGA 31-2 | 11/26/08 | 80.00% | N | 98.33% | N | P | | | |
| NGA # 130 | LAILG-NGA 130-4 | 11/26/08 | NR | | NR | | N | | | |
| NGA # 150 | LAILG-NGA 150-3 | 11/26/08 | NR | | NR | | P | | | |
| NGA # 25 | LAILG-NGA 25-1 | 11/26/08 | 80.00% | Y | 100.00% | N | N | | | |
| NGA # 124 | LAILG-NGA 124-5 | 12/15/08 | 0.00% | Y | NR | | NR | 12/16/08 | TIE was initiated, did not show an observed effect | |
| NGA # 189 | LAILG-NGA 189-2 | 12/15/08 | NR | | NR | | Y | 1/15/09 | Particulate Bound toxicants and OP compounds | |
| NGA # 110 | LAILG-NGA 110-2 | 12/15/08 | 90.00% | N | NR | | NR | | | |
| NGA # 178 | LAILG-NGA 178-1 | 12/15/08 | 100.00% | N | 100.00% | N | N | | | |
| NGA # 64 | LAILG-NGA 64-2 | 12/15/08 | 90.00% | P | NR | | NR | | | |
| NGA # 168 | LAILG-NGA 168-5 | 12/15/08 | 90.00% | P | NR | | NR | | | |
| NGA # 4 | LAILG-NGA 4-4 | 12/15/08 | 0.00% | Y | NR | | NR | 12/16/08 | Metals,copper,cadmium,zink,manganes,lead,and nickle | |

Y significantly different from control group
N no significant difference between control group
P partial toxicity. Toxicity high enough to exhibit effects, but not significant enough to initiate a succesful TIE (Typically needs a TUc of greater than 2
NR not required

**SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
TOXICITY RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

| Site | Sample # | Date | Ceriodaphnia | | Fathead Minnow | | Selenastrum | TIE | |
|----------|------------------|----------|---------------|--------------|----------------|--------|-------------|---------|---------------|
| | | | Survival | Reproduction | Survival | Growth | Growth | Date | Result |
| NGA #130 | NGA-#130-LAILG-1 | 8/6/07 | 100.00% | N | 93.33% | N | Y | | ns |
| NGA #183 | NGA-#183-LAILG-1 | 8/6/07 | 100.00% | N | 93.33% | N | N | | |
| NGA #19 | NGA-#19-LAILG-1 | 8/13/07 | 80.00% | N | 98.30% | N | N | | |
| NGA #124 | NGA-#124-LAILG-1 | 8/13/07 | 100.00% | N | 98.30% | N | N | | |
| NGA #168 | NGA-#168-LAILG-1 | 8/13/07 | 0.00% | Y | 98.30% | N | Y | 9/28/08 | 100% survival |
| NGA #150 | NGA-#150-LAILG | 9/25/07 | 0.00% | Y | 98.33% | N | Y | | ns |
| NGA #168 | NGA-#168-LAILG-3 | 11/30/07 | 100.00% | N | 100.00% | N | N | | |
| NGA #182 | NGA #182-LAILG-1 | 12/7/07 | 0.00% | Y | 98.33% | N | Y | | ns |
| NGA #4 | NGA #4-LAILG-1 | 12/7/07 | 0.00% | Y | 40.00% | Y | Y | | ns |
| NGA #130 | NGA #130-LAILG-2 | 12/7/07 | 100.00% | N | 98.33% | N | N | | |
| NGA #150 | NGA #150-LAILG-2 | 12/7/07 | 100.00% | N | 98.33% | N | Y | | ns |
| NGA #124 | NGA-#124-LAILG-2 | 12/7/07 | 0.00% | Y | 100.00% | N | Y | | ns |
| NGA #176 | NGA-#176-LAILG-1 | 12/18/07 | 100.00% | N | 100.00% | N | N | | |
| NGA #183 | LAILG-NGA#183-3 | 12/18/07 | 100.00% | N | 100.00% | N | N | | |
| NGA #19 | LAILG-NGA#19-2 | 12/18/07 | 50.00% | Y | 100.00% | N | N | | ns |
| NGA #13 | LAILG-NGA#13-1 | 12/18/07 | 10.00% | Y | 21.67% | Y | N | | ns |
| NGA #53 | LAILG-NGA#53-1 | 12/18/07 | 100.00% | N | 81.67% | N | N | | |

Y Significantly different from control group
N No significant difference between control group
ns not enough runoff for follow up sample

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
FIELD MONITORING RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample ID | Date | Sample Type | Time (24hr) | *Approximate Flow Cross Section (ft ²) | Flow (ft/s) | Temperature (°C) | pH | E.C. (uS) | Dissolved Oxygen (mg/L) | Turbidity (NTU) |
|----------|-----------------|---------|-------------|-------------|--|-------------|------------------|------|-----------|-------------------------|-----------------|
| NGA #4 | LAILG-NGA#4-5 | 3/21/11 | Bucket | 10:40 | 0.1250 | 0.01 | 11.0 | 9.81 | 43 | na* | 85 |
| | | | | 10:44 | | 0.01 | 11.1 | 9.64 | 25 | na* | 181 |
| | | | | 10:50 | | 0.01 | 11.2 | 9.29 | 25 | na* | 197 |
| NGA #124 | LAILG-NGA#124-6 | 3/21/11 | Bucket | 8:00 | nm | 9 | 10.4 | 7.89 | 292 | na* | 54.9 |
| | | | | 8:05 | | 11 | 10.5 | 7.82 | 282 | na* | 49.7 |
| | | | | 8:10 | | 13 | 10.5 | 7.87 | 268 | na* | 16.8 |
| NGA #150 | LAILG-NGA#150-5 | 3/21/11 | Bucket | 10:47 | 0.0185 | 4 | 15.4 | 6.70 | 1170 | na* | 34.7 |
| | | | | 10:49 | | 4 | 16.0 | 6.61 | 1127 | na* | 33.7 |
| | | | | 10:50 | | 5 | 15.9 | 6.59 | 1163 | na* | 38.0 |
| NGA #19 | LAILG-NGA#19-6 | 3/23/11 | Grab | 16:58 | nm | nm | 13.9 | 8.88 | 1.32 | na* | 999 |
| | | | | 17:00 | | nm | 14.2 | 8.83 | 1.05 | na* | 999 |
| | | | | 17:02 | | nm | 12.6 | 8.87 | 1.19 | na* | 999 |
| NGA #31 | LAILG-NGA#31-4 | 3/17/12 | Grab | 14:30 | 0.6042 | 0.88 | 13.83 | 7.73 | 99.9 | 9.33 | 220 |
| | | | | 14:34 | | 0.84 | 13.63 | 7.75 | 99.9 | 8.77 | 174 |
| | | | | 14:38 | | 0.94 | 13.44 | 7.95 | 98.6 | 8.51 | 181 |
| NGA #64 | LAILG-NGA#64-3 | 3/17/12 | Grab | 9:50 | 0.0833 | 1.3 | 14.7 | 5.5 | 14.3 | 10.48 | 352 |
| | | | | 9:53 | | 1.2 | 14.5 | 4.9 | 9.4 | 10.58 | 623 |
| | | | | 9:58 | | 1.3 | 14.5 | 5.2 | 4.2 | 10.43 | 179 |
| NGA #162 | LAILG-NGA#162-1 | 3/17/12 | Grab | 13:00 | nm | nm | 13.37 | 6.94 | 66.2 | 10.67 | 3.3 |
| | | | | 13:02 | | nm | 13.42 | 7.24 | 65.9 | 10.33 | 1.6 |
| | | | | 13:05 | | nm | 13.32 | 7.46 | 66.1 | 9.93 | 1.2 |
| NGA #168 | LAILG-NGA#168-6 | 3/17/12 | Grab | 11:15 | 0.0556 | 0.71 | 13.78 | 6.1 | 84.5 | 10.68 | >800 |
| | | | | 11:18 | | 0.52 | 13.83 | 6.8 | 85.9 | 10.05 | >800 |
| | | | | 11:21 | | 0.71 | 13.77 | 7.1 | 82.2 | 9.62 | >800 |
| NGA #4 | LAILG-NGA#4-6 | 3/25/12 | Pump | 12:50 | No flow measurements due to access restrictions | | 16.21 | 5.63 | 43.7 | 8.52 | 44.9 |
| | | | | 12:52 | | | 16.31 | 5.74 | 39.3 | 8.58 | 35.7 |
| | | | | 12:54 | | | 15.95 | 5.89 | 37.1 | 8.89 | 42.9 |

* Runoff streams were assumed to have a parabolic shape unless field measurements indicated otherwise. The cross sectional area of a parabola is 2/3*width*depth
ft/s feet per second mg/L milligrams per liter
°C degrees celcius NTU Nephelometric Turbidity Units
uS microsiemens
na* Not analyzed, DO meter was not functioning properly at the time of field sampling

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
FIELD MONITORING RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample ID | Date | Sample Type | Time (24hr) | *Approximate Flow Cross Section (ft ²) | Flow (ft/s) | Temperature (°C) | pH | E.C. (uS) | Dissolved Oxygen (mg/L) | Turbidity (NTU) |
|----------|-----------------|---------|-------------|-------------|--|-------------|------------------|------|-----------|-------------------------|-----------------|
| NGA #170 | LAILG-NGA#170-1 | 3/25/12 | Grab | 14:35 | nm | nm | 13.81 | 6.18 | 25.8 | 10.59 | 512 |
| | | | | 14:37 | | nm | 13.98 | 6.32 | 22.1 | 10.23 | 452 |
| | | | | 14:40 | | nm | 13.73 | 6.27 | 19.8 | 10.31 | 446 |
| NGA #176 | LAILG-NGA#176-2 | 3/25/12 | Grab | 15:15 | nm | nm | 13.17 | 6.49 | 39.7 | 10.69 | >800 |
| | | | | 15:17 | | nm | 13.16 | 6.63 | 38.4 | 10.41 | >800 |
| | | | | 15:21 | | nm | 12.73 | 6.44 | 40.2 | 10.69 | >800 |
| NGA #210 | LAILG-NGA#210-2 | 3/25/12 | Grab | 17:45 | nm | nm | 13.21 | 7.22 | 0.129 | 10.55 | 5.8 |
| | | | | 17:47 | | nm | 13.35 | 7.75 | 0.130 | 10.40 | 3.8 |
| | | | | 17:50 | | nm | 13.88 | 7.93 | 0.133 | 10.24 | 5.5 |

* Runoff streams were assumed to have a parabolic shape unless field measurements indicated otherwise. The cross sectional area of a parabola is 2/3*width*depth
ft/s feet per second mg/L milligrams per liter
°C degrees celcius NTU Nephelometric Turbidity Units
uS microsiemens nm not monitored

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 3
FIELD MONITORING RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample ID | Date | Sample Type | Time (24hr) | *Approximate Flow Cross | Flow (ft/s) | Temperature (°C) | pH | E.C. (uS) | Dissolved Oxygen | Turbidity (NTU) |
|----------|----------------|---------|-------------|-------------|-------------------------|-------------|------------------|------|-----------|------------------|-----------------|
| NGA #19 | LAILG-NGA19-7 | 2/28/14 | Bucket | 6:11 | nm | nm | 12.4 | 7.92 | 1114 | 9.08 | 815 |
| | | | | 6:12 | | nm | 12.3 | 7.98 | 1152 | 9.52 | 820 |
| | | | | 6:13 | | nm | 12.4 | 7.87 | 1112 | 9.61 | 810 |
| NGA #26 | LAILG-NGA26-1 | 2/28/14 | Bucket | 9:01 | nm | nm | 14.8 | 7.77 | 1081 | 7.84 | 212 |
| | | | | 9:02 | | nm | 14.7 | 7.82 | 1057 | 7.95 | 225 |
| | | | | 9:03 | | nm | 14.7 | 7.83 | 1072 | 7.88 | 220 |
| NGA #124 | LAILG-NGA124-7 | 2/28/14 | Bucket | 11:22 | nm | nm | 14.7 | 7.65 | 894 | 9.10 | 475 |
| | | | | 11:23 | | nm | 14.6 | 7.50 | 910 | 9.01 | 450 |
| | | | | 11:24 | | nm | 14.7 | 7.51 | 915 | 8.80 | 482 |
| NGA #178 | LAILG-NGA178-2 | 2/28/14 | Bucket | 10:00 | nm | nm | 15.0 | 7.88 | 928 | 10.15 | 468 |
| | | | | 10:01 | | nm | 14.9 | 7.92 | 952 | 10.28 | 472 |
| | | | | 10:02 | | nm | 15.0 | 7.81 | 943 | 10.21 | 490 |
| NGA #184 | LAILG-NGA184-3 | 2/28/14 | Bucket | 7:10 | nm | nm | 14.7 | 8.01 | 1213 | 8.11 | 512 |
| | | | | 7:11 | | nm | 14.6 | 8.10 | 1219 | 8.23 | 552 |
| | | | | 7:12 | | nm | 14.6 | 7.93 | 1242 | 8.15 | 495 |

* Runoff streams were assumed to have a parabolic shape unless field measurements indicated otherwise. The cross sectional area of a parabola is $\frac{2}{3} \times \text{width} \times \text{depth}$.

ft/s feet per second mg/L milligrams per liter

°C degrees celcius NTU Nephelometric Turbidity Units

uS microsiemens

na* Not analyzed, DO meter was not functioning properly at the time of field sampling

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 4
FIELD MONITORING RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample ID | Date | Sample Type | Time (24hr) | *Approximate Flow Cross | Flow (ft/s) | Temperature (°C) | pH | E.C. (uS) | Dissolved Oxygen | Turbidity (NTU) |
|----------|----------------|---------|-------------|-------------|-------------------------|-------------|------------------|------|-----------|------------------|-----------------|
| NGA #150 | LAILG-NGA150-6 | 12/2/14 | Grab | 8:00 | nm | nm | 14.8 | 9.31 | 460 | 9.40 | 150 |
| | | | | 8:15 | | nm | 14.8 | 9.50 | 450 | 9.30 | 130 |
| | | | | 8:20 | | nm | 14.9 | 8.94 | 440 | 10.50 | 180 |
| NGA #168 | LAILG-NGA168-7 | 5/15/15 | Bucket | 11:20 | nm | nm | 16.6 | 7.35 | 663 | 9.87 | 76 |
| | | | | 11:22 | | nm | 16.5 | 7.44 | 651 | 9.47 | 90 |
| | | | | 11:23 | | nm | 16.4 | 7.5 | 689 | 9.72 | 102 |
| NGA #188 | LAILG-NGA188-1 | 12/2/14 | Grab | 13:55 | nm | nm | 13.9 | 8.83 | 399 | 8.00 | 900 |
| | | | | 14:05 | | nm | 14.1 | 8.70 | 382 | 7.80 | 800 |
| | | | | 14:10 | | nm | 14.1 | 8.56 | 393 | 8.50 | 630 |

* Runoff streams were assumed to have a parabolic shape unless field measurements indicated otherwise. The cross sectional area of a parabola is $\frac{2}{3} \times \text{width} \times \text{depth}$.

ft/s feet per second mg/L milligrams per liter

°C degrees celcius NTU Nephelometric Turbidity Units

uS microsiemens

na* Not analyzed, DO meter was not functioning properly at the time of field sampling

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 5 CONTINUATION
FIELD MONITORING RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

| Site | Sample ID | Date | Sample Type | Time (24hr) | *Approximate Flow Cross | Flow (ft/s) | Temperature (°C) | pH | E.C. (uS) | Dissolved Oxygen | Turbidity (NTU) |
|----------|----------------|---------|-------------|-------------|-------------------------|-------------|------------------|------|-----------|------------------|-----------------|
| NGA #64 | LAILG-NGA-64-4 | 1/15/16 | Bucket | 8:30 | nm | nm | 13.2 | 9.00 | 85 | 13.00 | 58 |
| | | | | 8:40 | | nm | 13.0 | 8.80 | 63 | 12.62 | 66 |
| | | | | 8:42 | | nm | 12.9 | 8.27 | 80 | 12.37 | 113 |
| NGA #168 | LAILG-NGA168-8 | 1/15/16 | Bucket | 9:15 | nm | nm | 12.59 | 8.12 | 568 | 12.93 | 244 |
| | | | | 9:45 | | nm | 12.53 | 8.14 | 603 | 12.49 | 286 |
| | | | | 9:47 | | nm | 12.42 | 7.96 | 646 | 12.62 | 288 |

* Runoff streams were assumed to have a parabolic shape unless field measurements indicated otherwise. The cross sectional area of a parabola is $\frac{2}{3} \times \text{width} \times \text{depth}$.

ft/s feet per second mg/L milligrams per liter

°C degrees celcius NTU Nephelometric Turbidity Units

uS microsiemens

na* Not analyzed, DO meter was not functioning properly at the time of field sampling

APPENDIX C

LABORATORY ANALYTICAL RESULTS AND CHAIN OF CUSTODY DOCUMENTATION



CERTIFICATE OF ANALYSIS

| | |
|--|--|
| Client: Pacific Ridgeline Inc. 230 Dove Ct. Santa Paula CA, 93060 | Report Date: 01/28/16 11:04 |
| Attention: Bryn Home | Received Date: 01/05/16 12:11 |
| Phone: (805) 525-5563 | Turn Around: Normal |
| Fax: (805) 525-2896 | Client Project: Nursery Growers Association |
| Work Order(s): 6A05038 | |

NELAC #4047-002 ORELAP ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143


The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Bryn Home :

Enclosed are the results of analyses for samples received 01/05/16 12: 11 with the Chain of Custody document. The samples were received in good condition, at 10.7 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:



 Brandon Gee
 Project Manager





Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|----------------|--------------|------------|--------|----------------|
| LAILG-NGA-EB | Scott Jordan | 6A05038-01 | Water | 01/05/16 07:00 |
| LAILG-NGA168-8 | Scott Jordan | 6A05038-02 | Water | 01/05/16 09:20 |
| LAILG-NGA64-4 | Scott Jordan | 6A05038-03 | Water | 01/05/16 08:30 |
| LAILG-NGA-DUP | Scott Jordan | 6A05038-04 | Water | 01/05/16 09:30 |
| LAILG-NGA-FB | Scott Jordan | 6A05038-05 | Water | 01/05/16 10:30 |

ANALYSES

Anions by IC, EPA Method 300.0

Chlorinated Pesticides and/or PCBs

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Metals by EPA 200 Series Methods

Pyrethroid Pesticides by GC/MS SIM

Semivolatile Organic Compounds by GC/MS



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-01 LAILG-NGA-EB

Sampled: 01/05/16 07:00

Sampled By: Scott Jordan

Matrix: Water

Anions by IC, EPA Method 300.0

Method: EPA 300.0

Batch: W6A0290

Prepared: 01/07/16 12:00

Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-----------------|--------|------|-------|-----|----------------|-----------|
| Chloride, Total | ND | 0.50 | mg/l | 1 | 01/07/16 16:50 | |
| Sulfate as SO4 | ND | 0.50 | mg/l | 1 | 01/07/16 16:50 | |

Chlorinated Pesticides and/or PCBs

Method: EPA 608

Batch: W6A0222

Prepared: 01/07/16 08:26

Analyst: par

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------------------|-----------|-----|-------|-----|----------------|-----------|
| 2,4'-DDD | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| 2,4'-DDE | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| 2,4'-DDT | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| 4,4'-DDD | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| 4,4'-DDE | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| 4,4'-DDT | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| Aldrin | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| alpha-BHC | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| alpha-Chlordane | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| Aroclor 1016 | ND | 100 | ng/l | 1 | 01/22/16 01:28 | |
| Aroclor 1221 | ND | 100 | ng/l | 1 | 01/22/16 01:28 | |
| Aroclor 1232 | ND | 100 | ng/l | 1 | 01/22/16 01:28 | |
| Aroclor 1242 | ND | 100 | ng/l | 1 | 01/22/16 01:28 | |
| Aroclor 1248 | ND | 100 | ng/l | 1 | 01/22/16 01:28 | |
| Aroclor 1254 | ND | 100 | ng/l | 1 | 01/22/16 01:28 | |
| Aroclor 1260 | ND | 100 | ng/l | 1 | 01/22/16 01:28 | |
| beta-BHC | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| Chlordane (tech) | ND | 100 | ng/l | 1 | 01/22/16 01:28 | |
| cis-Nonachlor | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| delta-BHC | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| Dieldrin | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| Endosulfan I | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| Endosulfan II | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| Endosulfan sulfate | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| Endrin | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| Endrin aldehyde | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| gamma-BHC (Lindane) | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| gamma-Chlordane | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| Heptachlor | 68 | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| Heptachlor epoxide | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| Methoxychlor | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| Mirex | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |
| Toxaphene | ND | 500 | ng/l | 1 | 01/22/16 01:28 | |
| trans-Nonachlor | ND | 5.0 | ng/l | 1 | 01/22/16 01:28 | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-01 LAILG-NGA-EB

Sampled: 01/05/16 07:00

Sampled By: Scott Jordan

Matrix: Water

Chlorinated Pesticides and/or PCBs

| Method: EPA 608 | Batch: W6A0222 | Prepared: 01/07/16 08:26 | Analyst: par | | | |
|-------------------------------|----------------|--------------------------|--------------|-----|----------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Surr: Decachlorobiphenyl | 45 % | Conc:45.3 | 0.1-118 | % | | |
| Surr: Tetrachloro-meta-xylene | 71 % | Conc:70.5 | 12-117 | % | | |

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

| Method: EPA 350.1 | Batch: W6A1015 | Prepared: 01/19/16 15:17 | Analyst: mbc | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Ammonia as N | ND | 0.10 | mg/l | 1 | 01/21/16 16:25 | |

| Method: EPA 353.2 | Batch: W6A0119 | Prepared: 01/05/16 14:07 | Analyst: AJW | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| NO2+NO3 as N | ND | 100 | ug/l | 1 | 01/05/16 16:27 | |

| Method: EPA 365.1 | Batch: W6A0215 | Prepared: 01/06/16 14:18 | Analyst: lac | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| o-Phosphate as P | ND | 0.0020 | mg/l | 1 | 01/06/16 19:10 | ** |

| Method: EPA 365.1 | Batch: W6A0216 | Prepared: 01/06/16 14:20 | Analyst: lac | | | |
|-----------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| o-Phosphate as P, dissolved | ND | 2.0 | ug/l | 1 | 01/06/16 19:44 | ** |

| Method: EPA 365.1 | Batch: W6A0621 | Prepared: 01/12/16 18:52 | Analyst: lac | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Phosphorus as P, Total | ND | 0.010 | mg/l | 1 | 01/14/16 15:48 | |

| Method: EPA 365.1 | Batch: W6A0812 | Prepared: 01/15/16 11:27 | Analyst: lac | | | |
|-----------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Phosphorus, Dissolved | ND | 0.010 | mg/l | 1 | 01/20/16 15:08 | |

| Method: SM 2540C | Batch: W6A0366 | Prepared: 01/08/16 11:19 | Analyst: ajw | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Total Dissolved Solids | ND | 10 | mg/l | 1 | 01/08/16 13:30 | |

| Method: SM 2540D | Batch: W6A0142 | Prepared: 01/05/16 18:19 | Analyst: ajw | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Total Suspended Solids | ND | 5 | mg/l | 1 | 01/05/16 19:15 | |

Metals by EPA 200 Series Methods

| Method: EPA 200.7 | Batch: [CALC] | Prepared: 01/07/16 12:20 | Analyst: jck | | | |
|---------------------------|---------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Calcium Hardness as CaCO3 | ND | 0.250 | mg/l | 1 | 01/12/16 14:57 | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-01 LAILG-NGA-EB

Sampled: 01/05/16 07:00

Sampled By: Scott Jordan

Matrix: Water

Metals by EPA 200 Series Methods

| Method: EPA 200.7 | Batch: W6A0296 | Prepared: 01/07/16 12:20 | Analyst: jck | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Calcium, Total | ND | 0.100 | mg/l | 1 | 01/12/16 14:57 | |

| Method: EPA 200.8 | Batch: W6A0301 | Prepared: 01/07/16 12:31 | Analyst: rrl | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Copper, Total | ND | 0.50 | ug/l | 1 | 01/13/16 13:21 | |

Pyrethroid Pesticides by GC/MS SIM

| Method: GC/MS NCI-SIM | Batch: W6A0864 | Prepared: 01/17/16 08:10 | Analyst: EFC | | | |
|---------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Allethrin | ND | 2.0 | ng/l | 1 | 01/23/16 01:56 | |
| Bifenthrin | ND | 2.0 | ng/l | 1 | 01/23/16 01:56 | |
| Cyfluthrin | ND | 2.0 | ng/l | 1 | 01/23/16 01:56 | |
| Cypermethrin | ND | 2.0 | ng/l | 1 | 01/23/16 01:56 | |
| Deltamethrin/Tralomethrin | ND | 2.0 | ng/l | 1 | 01/23/16 01:56 | |
| Dichloran | ND | 2.0 | ng/l | 1 | 01/23/16 01:56 | |
| Fenpropathrin (Danitol) | ND | 2.0 | ng/l | 1 | 01/23/16 01:56 | |
| Fenvalerate/Esfenvalerate | ND | 2.0 | ng/l | 1 | 01/23/16 01:56 | |
| L-Cyhalothrin | ND | 2.0 | ng/l | 1 | 01/23/16 01:56 | |
| Pendimethalin | ND | 2.0 | ng/l | 1 | 01/23/16 01:56 | |
| Permethrin | ND | 5.0 | ng/l | 1 | 01/23/16 01:56 | |
| Prallethrin | ND | 2.0 | ng/l | 1 | 01/23/16 01:56 | |
| Sumithrin (Phenothrin) | ND | 10 | ng/l | 1 | 01/23/16 01:56 | |
| Tefluthrin | ND | 2.0 | ng/l | 1 | 01/23/16 01:56 | |
| Surr: Perylene-d12 | 96 % | Conc:241 | 2-205 | % | | |
| Surr: Triphenyl phosphate | 110 % | Conc:275 | 6-222 | % | | |

Semivolatile Organic Compounds by GC/MS

| Method: EPA 525.2 | Batch: W6A0444 | Prepared: 01/10/16 09:20 | Analyst: EFC | | | |
|---------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Azinphos methyl (Guthion) | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Bolstar | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Chlorpyrifos | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Coumaphos | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Demeton-o | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Demeton-s | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Diazinon | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Dichlorvos | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Dimethoate | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Disulfoton | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Ethoprop | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |



Pacific Ridgeline Inc.
 230 Dove Ct.
 Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-01 LAILG-NGA-EB

Sampled: 01/05/16 07:00

Sampled By: Scott Jordan

Matrix: Water

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2

Batch: W6A0444

Prepared: 01/10/16 09:20

Analyst: EFC

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|--|--------|----------|--------|-----|----------------|-----------|
| Ethyl parathion | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Fensulfothion | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Fenthion | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Malathion | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Merphos | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Methyl parathion | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Mevinphos | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Naled | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Phorate | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Ronnel | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Stirophos | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Tokuthion (Prothiofos) | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| Trichloronate | ND | 10 | ng/l | 1 | 01/12/16 19:51 | |
| <i>Surr: 1,3-Dimethyl-2-nitrobenzene</i> | 107 % | Conc:536 | 76-128 | % | | |
| <i>Surr: Triphenyl phosphate</i> | 95 % | Conc:476 | 40-163 | % | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-02 LAILG-NGA168-8

Sampled: 01/05/16 09:20

Sampled By: Scott Jordan

Matrix: Water

Anions by IC, EPA Method 300.0

Method: EPA 300.0

Batch: W6A0290

Prepared: 01/07/16 12:00

Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-----------------|--------|-----|-------|-----|----------------|-----------|
| Chloride, Total | 41 | 1.2 | mg/l | 2.5 | 01/07/16 15:41 | |
| Sulfate as SO4 | 160 | 1.2 | mg/l | 2.5 | 01/07/16 15:41 | |

Chlorinated Pesticides and/or PCBs

Method: EPA 608

Batch: W6A0222

Prepared: 01/07/16 08:26

Analyst: par

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------------------|--------|------|-------|-----|----------------|-----------|
| 2,4'-DDD | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| 2,4'-DDE | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| 2,4'-DDT | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| 4,4'-DDD | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| 4,4'-DDE | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| 4,4'-DDT | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Aldrin | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| alpha-BHC | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| alpha-Chlordane | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Aroclor 1016 | ND | 500 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Aroclor 1221 | ND | 500 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Aroclor 1232 | ND | 500 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Aroclor 1242 | ND | 500 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Aroclor 1248 | ND | 500 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Aroclor 1254 | ND | 500 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Aroclor 1260 | ND | 500 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| beta-BHC | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Chlordane (tech) | ND | 500 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| cis-Nonachlor | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| delta-BHC | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Dieldrin | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Endosulfan I | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Endosulfan II | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Endosulfan sulfate | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Endrin | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Endrin aldehyde | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| gamma-BHC (Lindane) | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| gamma-Chlordane | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Heptachlor | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Heptachlor epoxide | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Methoxychlor | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Mirex | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| Toxaphene | ND | 2500 | ng/l | 5 | 01/22/16 01:58 | M-04 |
| trans-Nonachlor | ND | 25 | ng/l | 5 | 01/22/16 01:58 | M-04 |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-02 LAILG-NGA168-8

Sampled: 01/05/16 09:20

Sampled By: Scott Jordan

Matrix: Water

Chlorinated Pesticides and/or PCBs

| Method: EPA 608 | Batch: W6A0222 | Prepared: 01/07/16 08:26 | Analyst: par | | | |
|-------------------------------|----------------|--------------------------|--------------|-----|----------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Surr: Decachlorobiphenyl | 63 % | Conc:62.8 | 0.1-118 | % | | M-04 |
| Surr: Tetrachloro-meta-xylene | 69 % | Conc:68.8 | 12-117 | % | | M-04 |

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

| Method: EPA 350.1 | Batch: W6A1015 | Prepared: 01/19/16 15:17 | Analyst: mbc | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Ammonia as N | 0.36 | 0.10 | mg/l | 1 | 01/21/16 16:25 | |

| Method: EPA 353.2 | Batch: W6A0119 | Prepared: 01/05/16 14:07 | Analyst: AJW | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| NO2+NO3 as N | 15000 | 200 | ug/l | 2 | 01/05/16 17:52 | |

| Method: EPA 365.1 | Batch: W6A0215 | Prepared: 01/06/16 14:18 | Analyst: lac | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| o-Phosphate as P | 0.32 | 0.010 | mg/l | 5 | 01/06/16 19:26 | ** |

| Method: EPA 365.1 | Batch: W6A0216 | Prepared: 01/06/16 14:20 | Analyst: lac | | | |
|-----------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| o-Phosphate as P, dissolved | 320 | 10 | ug/l | 5 | 01/06/16 19:43 | ** |

| Method: EPA 365.1 | Batch: W6A0621 | Prepared: 01/12/16 18:52 | Analyst: lac | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Phosphorus as P, Total | 0.80 | 0.10 | mg/l | 1 | 01/14/16 15:49 | |

| Method: EPA 365.1 | Batch: W6A0686 | Prepared: 01/13/16 16:07 | Analyst: lac | | | |
|-----------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Phosphorus, Dissolved | 0.45 | 0.040 | mg/l | 2 | 01/20/16 14:20 | M-06 |

| Method: SM 2540C | Batch: W6A0366 | Prepared: 01/08/16 11:19 | Analyst: ajw | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Total Dissolved Solids | 410 | 10 | mg/l | 1 | 01/08/16 13:30 | |

| Method: SM 2540D | Batch: W6A0142 | Prepared: 01/05/16 18:19 | Analyst: ajw | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Total Suspended Solids | 140 | 5 | mg/l | 1 | 01/05/16 19:15 | |

Metals by EPA 200 Series Methods

| Method: EPA 200.7 | Batch: [CALC] | Prepared: 01/07/16 12:20 | Analyst: jck | | | |
|---------------------------|---------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Calcium Hardness as CaCO3 | 162 | 0.250 | mg/l | 1 | 01/12/16 15:11 | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-02 LAILG-NGA168-8

Sampled: 01/05/16 09:20

Sampled By: Scott Jordan

Matrix: Water

Metals by EPA 200 Series Methods

| Method: EPA 200.7 | Batch: W6A0296 | Prepared: 01/07/16 12:20 | Analyst: jck | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Calcium, Total | 64.9 | 0.100 | mg/l | 1 | 01/12/16 15:11 | |

| Method: EPA 200.8 | Batch: W6A0301 | Prepared: 01/07/16 12:31 | Analyst: rrl | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Copper, Total | 36 | 0.50 | ug/l | 1 | 01/13/16 13:25 | |

Pyrethroid Pesticides by GC/MS SIM

| Method: GC/MS NCI-SIM | Batch: W6A0864 | Prepared: 01/17/16 08:10 | Analyst: EFC | | | |
|---------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Allethrin | ND | 4.0 | ng/l | 2 | 01/23/16 02:28 | M-04 |
| Bifenthrin | 310 | 4.0 | ng/l | 2 | 01/23/16 02:28 | M-04 |
| Cyfluthrin | ND | 4.0 | ng/l | 2 | 01/23/16 02:28 | M-04 |
| Cypermethrin | ND | 4.0 | ng/l | 2 | 01/23/16 02:28 | M-04 |
| Deltamethrin/Tralomethrin | ND | 4.0 | ng/l | 2 | 01/23/16 02:28 | M-04 |
| Dichloran | ND | 4.0 | ng/l | 2 | 01/23/16 02:28 | M-04 |
| Fenpropathrin (Danitol) | ND | 4.0 | ng/l | 2 | 01/23/16 02:28 | M-04 |
| Fenvalerate/Esfenvalerate | ND | 4.0 | ng/l | 2 | 01/23/16 02:28 | M-04 |
| L-Cyhalothrin | ND | 4.0 | ng/l | 2 | 01/23/16 02:28 | M-04 |
| Pendimethalin | 69 | 4.0 | ng/l | 2 | 01/23/16 02:28 | M-04 |
| Permethrin | ND | 10 | ng/l | 2 | 01/23/16 02:28 | M-04 |
| Prallethrin | ND | 4.0 | ng/l | 2 | 01/23/16 02:28 | M-04 |
| Sumithrin (Phenothrin) | ND | 20 | ng/l | 2 | 01/23/16 02:28 | M-04 |
| Tefluthrin | ND | 4.0 | ng/l | 2 | 01/23/16 02:28 | M-04 |
| Surr: Perylene-d12 | 131 % | Conc:327 | 2-205 | % | | M-04 |
| Surr: Triphenyl phosphate | 156 % | Conc:391 | 6-222 | % | | M-04 |

Semivolatile Organic Compounds by GC/MS

| Method: EPA 525.2 | Batch: W6A0444 | Prepared: 01/10/16 09:20 | Analyst: EFC | | | |
|---------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Azinphos methyl (Guthion) | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Bolstar | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Chlorpyrifos | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Coumaphos | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Demeton-o | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Demeton-s | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Diazinon | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Dichlorvos | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Dimethoate | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Disulfoton | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Ethoprop | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |



Pacific Ridgeline Inc.
 230 Dove Ct.
 Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-02 LAILG-NGA168-8

Sampled: 01/05/16 09:20

Sampled By: Scott Jordan

Matrix: Water

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2

Batch: W6A0444

Prepared: 01/10/16 09:20

Analyst: EFC

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|--|--------|----------|--------|-----|----------------|-----------|
| Ethyl parathion | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Fensulfothion | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Fenthion | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Malathion | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Merphos | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Methyl parathion | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Mevinphos | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Naled | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Phorate | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Ronnel | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Stirophos | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Tokuthion (Prothiofos) | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| Trichloronate | ND | 10 | ng/l | 1 | 01/12/16 20:17 | |
| <i>Surr: 1,3-Dimethyl-2-nitrobenzene</i> | 109 % | Conc:544 | 76-128 | % | | |
| <i>Surr: Triphenyl phosphate</i> | 121 % | Conc:606 | 40-163 | % | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-03 LAILG-NGA64-4

Sampled: 01/05/16 08:30

Sampled By: Scott Jordan

Matrix: Water

Anions by IC, EPA Method 300.0

Method: EPA 300.0

Batch: W6A0290

Prepared: 01/07/16 12:00

Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-----------------|--------|------|-------|-----|----------------|-----------|
| Chloride, Total | 3.9 | 0.50 | mg/l | 1 | 01/07/16 15:57 | |
| Sulfate as SO4 | 7.2 | 0.50 | mg/l | 1 | 01/07/16 15:57 | |

Chlorinated Pesticides and/or PCBs

Method: EPA 608

Batch: W6A0222

Prepared: 01/07/16 08:26

Analyst: par

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------------------|--------|------|-------|-----|----------------|-----------|
| 2,4'-DDD | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| 2,4'-DDE | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| 2,4'-DDT | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| 4,4'-DDD | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| 4,4'-DDE | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| 4,4'-DDT | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Aldrin | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| alpha-BHC | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| alpha-Chlordane | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Aroclor 1016 | ND | 500 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Aroclor 1221 | ND | 500 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Aroclor 1232 | ND | 500 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Aroclor 1242 | ND | 500 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Aroclor 1248 | ND | 500 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Aroclor 1254 | ND | 500 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Aroclor 1260 | ND | 500 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| beta-BHC | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Chlordane (tech) | ND | 500 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| cis-Nonachlor | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| delta-BHC | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Dieldrin | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Endosulfan I | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Endosulfan II | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Endosulfan sulfate | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Endrin | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Endrin aldehyde | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| gamma-BHC (Lindane) | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| gamma-Chlordane | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Heptachlor | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Heptachlor epoxide | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Methoxychlor | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Mirex | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| Toxaphene | ND | 2500 | ng/l | 5 | 01/22/16 02:29 | M-04 |
| trans-Nonachlor | ND | 25 | ng/l | 5 | 01/22/16 02:29 | M-04 |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-03 LAILG-NGA64-4

Sampled: 01/05/16 08:30

Sampled By: Scott Jordan

Matrix: Water

Chlorinated Pesticides and/or PCBs

| Method: EPA 608 | Batch: W6A0222 | Prepared: 01/07/16 08:26 | Analyst: par | | | |
|-------------------------------|----------------|--------------------------|--------------|-----|----------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Surr: Decachlorobiphenyl | 44 % | Conc:44.3 | 0.1-118 | % | | M-04 |
| Surr: Tetrachloro-meta-xylene | 77 % | Conc:76.8 | 12-117 | % | | M-04 |

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

| Method: EPA 350.1 | Batch: W6A1015 | Prepared: 01/19/16 15:17 | Analyst: mbc | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Ammonia as N | 0.63 | 0.10 | mg/l | 1 | 01/21/16 16:25 | |

| Method: EPA 353.2 | Batch: W6A0119 | Prepared: 01/05/16 14:07 | Analyst: AJW | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| NO2+NO3 as N | 700 | 100 | ug/l | 1 | 01/05/16 17:06 | |

| Method: EPA 365.1 | Batch: W6A0215 | Prepared: 01/06/16 14:18 | Analyst: lac | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| o-Phosphate as P | 0.16 | 0.0020 | mg/l | 1 | 01/06/16 19:13 | ** |

| Method: EPA 365.1 | Batch: W6A0216 | Prepared: 01/06/16 14:20 | Analyst: lac | | | |
|-----------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| o-Phosphate as P, dissolved | 150 | 2.0 | ug/l | 1 | 01/06/16 19:46 | ** |

| Method: EPA 365.1 | Batch: W6A0621 | Prepared: 01/12/16 18:52 | Analyst: lac | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Phosphorus as P, Total | 0.46 | 0.050 | mg/l | 1 | 01/14/16 15:50 | |

| Method: EPA 365.1 | Batch: W6A0686 | Prepared: 01/13/16 16:07 | Analyst: lac | | | |
|-----------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Phosphorus, Dissolved | 0.17 | 0.010 | mg/l | 1 | 01/20/16 14:22 | |

| Method: SM 2540C | Batch: W6A0366 | Prepared: 01/08/16 11:19 | Analyst: ajw | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Total Dissolved Solids | 45 | 10 | mg/l | 1 | 01/08/16 13:30 | |

| Method: SM 2540D | Batch: W6A0142 | Prepared: 01/05/16 18:19 | Analyst: ajw | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Total Suspended Solids | 190 | 5 | mg/l | 1 | 01/05/16 19:15 | |

Metals by EPA 200 Series Methods

| Method: EPA 200.7 | Batch: [CALC] | Prepared: 01/07/16 12:20 | Analyst: jck | | | |
|---------------------------|---------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Calcium Hardness as CaCO3 | 28.3 | 0.250 | mg/l | 1 | 01/12/16 15:13 | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-03 LAILG-NGA64-4

Sampled: 01/05/16 08:30

Sampled By: Scott Jordan

Matrix: Water

Metals by EPA 200 Series Methods

| Method: EPA 200.7 | Batch: W6A0296 | Prepared: 01/07/16 12:20 | Analyst: jck | | | |
|-----------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Calcium, Total | 11.3 | 0.100 | mg/l | 1 | 01/12/16 15:13 | |

| Method: EPA 200.8 | Batch: W6A0301 | Prepared: 01/07/16 12:31 | Analyst: rrl | | | |
|----------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Copper, Total | 27 | 0.50 | ug/l | 1 | 01/13/16 13:29 | |

Pyrethroid Pesticides by GC/MS SIM

| Method: GC/MS NCI-SIM | Batch: W6A0864 | Prepared: 01/17/16 08:10 | Analyst: EFC | | | |
|---------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Allethrin | ND | 2.0 | ng/l | 1 | 01/23/16 03:01 | |
| Bifenthrin | 2.0 | 2.0 | ng/l | 1 | 01/23/16 03:01 | |
| Cyfluthrin | ND | 2.0 | ng/l | 1 | 01/23/16 03:01 | |
| Cypermethrin | ND | 2.0 | ng/l | 1 | 01/23/16 03:01 | |
| Deltamethrin/Tralomethrin | ND | 2.0 | ng/l | 1 | 01/23/16 03:01 | |
| Dichloran | 2.6 | 2.0 | ng/l | 1 | 01/23/16 03:01 | |
| Fenpropathrin (Danitol) | ND | 2.0 | ng/l | 1 | 01/23/16 03:01 | |
| Fenvalerate/Esfenvalerate | ND | 2.0 | ng/l | 1 | 01/23/16 03:01 | |
| L-Cyhalothrin | ND | 2.0 | ng/l | 1 | 01/23/16 03:01 | |
| Pendimethalin | 2.7 | 2.0 | ng/l | 1 | 01/23/16 03:01 | |
| Permethrin | ND | 5.0 | ng/l | 1 | 01/23/16 03:01 | |
| Prallethrin | ND | 2.0 | ng/l | 1 | 01/23/16 03:01 | |
| Sumithrin (Phenothrin) | ND | 10 | ng/l | 1 | 01/23/16 03:01 | |
| Tefluthrin | ND | 2.0 | ng/l | 1 | 01/23/16 03:01 | |
| Surr: Perylene-d12 | 105 % | Conc:263 | 2-205 | % | | |
| Surr: Triphenyl phosphate | 139 % | Conc:347 | 6-222 | % | | |

Semivolatile Organic Compounds by GC/MS

| Method: EPA 525.2 | Batch: W6A0444 | Prepared: 01/10/16 09:20 | Analyst: EFC | | | |
|---------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Azinphos methyl (Guthion) | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Bolstar | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Chlorpyrifos | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Coumaphos | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Demeton-o | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Demeton-s | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Diazinon | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Dichlorvos | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Dimethoate | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Disulfoton | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Ethoprop | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |



Pacific Ridgeline Inc.
 230 Dove Ct.
 Santa Paula CA, 93060

Date Received: 01/05/16 12:11
 Date Reported: 01/28/16 11:04

6A05038-03 LAILG-NGA64-4

Sampled: 01/05/16 08:30

Sampled By: Scott Jordan

Matrix: Water

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2

Batch: W6A0444

Prepared: 01/10/16 09:20

Analyst: EFC

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-----------------------------------|--------|----------|--------|-----|----------------|-----------|
| Ethyl parathion | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Fensulfothion | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Fenthion | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Malathion | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Merphos | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Methyl parathion | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Mevinphos | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Naled | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Phorate | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Ronnel | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Stirophos | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Tokuthion (Prothiofos) | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Trichloronate | ND | 10 | ng/l | 1 | 01/12/16 20:42 | |
| Surr: 1,3-Dimethyl-2-nitrobenzene | 132 % | Conc:662 | 76-128 | % | | S-GC |
| Surr: Triphenyl phosphate | 138 % | Conc:688 | 40-163 | % | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-04 LAILG-NGA-DUP

Sampled: 01/05/16 09:30

Sampled By: Scott Jordan

Matrix: Water

Anions by IC, EPA Method 300.0

Method: EPA 300.0

Batch: W6A0290

Prepared: 01/07/16 12:00

Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-----------------|--------|-----|-------|-----|----------------|-----------|
| Chloride, Total | 39 | 2.5 | mg/l | 5 | 01/07/16 17:21 | |
| Sulfate as SO4 | 160 | 2.5 | mg/l | 5 | 01/07/16 17:21 | |

Chlorinated Pesticides and/or PCBs

Method: EPA 608

Batch: W6A0222

Prepared: 01/07/16 08:26

Analyst: par

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------------------|--------|------|-------|-----|----------------|-----------|
| 2,4'-DDD | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| 2,4'-DDE | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| 2,4'-DDT | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| 4,4'-DDD | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| 4,4'-DDE | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| 4,4'-DDT | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Aldrin | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| alpha-BHC | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| alpha-Chlordane | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Aroclor 1016 | ND | 500 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Aroclor 1221 | ND | 500 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Aroclor 1232 | ND | 500 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Aroclor 1242 | ND | 500 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Aroclor 1248 | ND | 500 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Aroclor 1254 | ND | 500 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Aroclor 1260 | ND | 500 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| beta-BHC | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Chlordane (tech) | ND | 500 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| cis-Nonachlor | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| delta-BHC | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Dieldrin | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Endosulfan I | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Endosulfan II | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Endosulfan sulfate | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Endrin | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Endrin aldehyde | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| gamma-BHC (Lindane) | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| gamma-Chlordane | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Heptachlor | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Heptachlor epoxide | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Methoxychlor | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Mirex | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| Toxaphene | ND | 2500 | ng/l | 5 | 01/22/16 02:59 | M-04 |
| trans-Nonachlor | ND | 25 | ng/l | 5 | 01/22/16 02:59 | M-04 |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-04 LAILG-NGA-DUP

Sampled: 01/05/16 09:30

Sampled By: Scott Jordan

Matrix: Water

Chlorinated Pesticides and/or PCBs

| Method: EPA 608 | Batch: W6A0222 | Prepared: 01/07/16 08:26 | Analyst: par | | | |
|-------------------------------|----------------|--------------------------|--------------|-----|----------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Surr: Decachlorobiphenyl | 69 % | Conc:69.2 | 0.1-118 | % | | M-04 |
| Surr: Tetrachloro-meta-xylene | 74 % | Conc:74.2 | 12-117 | % | | M-04 |

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

| Method: EPA 350.1 | Batch: W6A1015 | Prepared: 01/19/16 15:17 | Analyst: mbc | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Ammonia as N | 0.36 | 0.10 | mg/l | 1 | 01/21/16 16:25 | |

| Method: EPA 353.2 | Batch: W6A0119 | Prepared: 01/05/16 14:07 | Analyst: AJW | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| NO2+NO3 as N | 15000 | 200 | ug/l | 2 | 01/05/16 17:54 | |

| Method: EPA 365.1 | Batch: W6A0215 | Prepared: 01/06/16 14:18 | Analyst: lac | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| o-Phosphate as P | 0.35 | 0.010 | mg/l | 5 | 01/06/16 19:27 | ** |

| Method: EPA 365.1 | Batch: W6A0216 | Prepared: 01/06/16 14:20 | Analyst: lac | | | |
|-----------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| o-Phosphate as P, dissolved | 350 | 10 | ug/l | 5 | 01/06/16 19:47 | ** |

| Method: EPA 365.1 | Batch: W6A0621 | Prepared: 01/12/16 18:52 | Analyst: lac | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Phosphorus as P, Total | 0.91 | 0.10 | mg/l | 1 | 01/14/16 15:52 | |

| Method: EPA 365.1 | Batch: W6A0686 | Prepared: 01/13/16 16:07 | Analyst: lac | | | |
|-----------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Phosphorus, Dissolved | 0.50 | 0.040 | mg/l | 2 | 01/20/16 14:23 | M-06 |

| Method: SM 2540C | Batch: W6A0366 | Prepared: 01/08/16 11:19 | Analyst: ajw | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Total Dissolved Solids | 410 | 10 | mg/l | 1 | 01/08/16 13:30 | |

| Method: SM 2540D | Batch: W6A0142 | Prepared: 01/05/16 18:19 | Analyst: ajw | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Total Suspended Solids | 160 | 5 | mg/l | 1 | 01/05/16 19:15 | |

Metals by EPA 200 Series Methods

| Method: EPA 200.7 | Batch: [CALC] | Prepared: 01/07/16 12:20 | Analyst: jck | | | |
|---------------------------|---------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Calcium Hardness as CaCO3 | 159 | 0.250 | mg/l | 1 | 01/12/16 15:16 | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-04 LAILG-NGA-DUP

Sampled: 01/05/16 09:30

Sampled By: Scott Jordan

Matrix: Water

Metals by EPA 200 Series Methods

| Method: EPA 200.7 | Batch: W6A0296 | Prepared: 01/07/16 12:20 | | | | | Analyst: jck |
|-----------------------|----------------|--------------------------|-------|-----|----------------|-----------|--------------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier | |
| Calcium, Total | 63.6 | 0.100 | mg/l | 1 | 01/12/16 15:16 | | |

| Method: EPA 200.8 | Batch: W6A0301 | Prepared: 01/07/16 12:31 | | | | | Analyst: rrl |
|----------------------|----------------|--------------------------|-------|-----|----------------|-----------|--------------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier | |
| Copper, Total | 41 | 0.50 | ug/l | 1 | 01/13/16 13:34 | | |

Pyrethroid Pesticides by GC/MS SIM

| Method: GC/MS NCI-SIM | Batch: W6A0864 | Prepared: 01/17/16 08:10 | | | | | Analyst: EFC |
|---------------------------|----------------|--------------------------|-------|-----|----------------|-----------|--------------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier | |
| Allethrin | ND | 4.0 | ng/l | 2 | 01/23/16 03:33 | M-04 | |
| Bifenthrin | 250 | 4.0 | ng/l | 2 | 01/23/16 03:33 | M-04 | |
| Cyfluthrin | ND | 4.0 | ng/l | 2 | 01/23/16 03:33 | M-04 | |
| Cypermethrin | ND | 4.0 | ng/l | 2 | 01/23/16 03:33 | M-04 | |
| Deltamethrin/Tralomethrin | ND | 4.0 | ng/l | 2 | 01/23/16 03:33 | M-04 | |
| Dichloran | ND | 4.0 | ng/l | 2 | 01/23/16 03:33 | M-04 | |
| Fenpropathrin (Danitol) | ND | 4.0 | ng/l | 2 | 01/23/16 03:33 | M-04 | |
| Fenvalerate/Esfenvalerate | ND | 4.0 | ng/l | 2 | 01/23/16 03:33 | M-04 | |
| L-Cyhalothrin | ND | 4.0 | ng/l | 2 | 01/23/16 03:33 | M-04 | |
| Pendimethalin | 50 | 4.0 | ng/l | 2 | 01/23/16 03:33 | M-04 | |
| Permethrin | ND | 10 | ng/l | 2 | 01/23/16 03:33 | M-04 | |
| Prallethrin | ND | 4.0 | ng/l | 2 | 01/23/16 03:33 | M-04 | |
| Sumithrin (Phenothrin) | ND | 20 | ng/l | 2 | 01/23/16 03:33 | M-04 | |
| Tefluthrin | ND | 4.0 | ng/l | 2 | 01/23/16 03:33 | M-04 | |
| Surr: Perylene-d12 | 105 % | Conc:263 | 2-205 | % | | M-04 | |
| Surr: Triphenyl phosphate | 125 % | Conc:314 | 6-222 | % | | M-04 | |

Semivolatile Organic Compounds by GC/MS

| Method: EPA 525.2 | Batch: W6A0444 | Prepared: 01/10/16 09:20 | | | | | Analyst: EFC |
|---------------------------|----------------|--------------------------|-------|-----|----------------|-----------|--------------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier | |
| Azinphos methyl (Guthion) | ND | 10 | ng/l | 1 | 01/12/16 21:08 | | |
| Bolstar | ND | 10 | ng/l | 1 | 01/12/16 21:08 | | |
| Chlorpyrifos | ND | 10 | ng/l | 1 | 01/12/16 21:08 | | |
| Coumaphos | ND | 10 | ng/l | 1 | 01/12/16 21:08 | | |
| Demeton-o | ND | 10 | ng/l | 1 | 01/12/16 21:08 | | |
| Demeton-s | ND | 10 | ng/l | 1 | 01/12/16 21:08 | | |
| Diazinon | ND | 10 | ng/l | 1 | 01/12/16 21:08 | | |
| Dichlorvos | ND | 10 | ng/l | 1 | 01/12/16 21:08 | | |
| Dimethoate | ND | 10 | ng/l | 1 | 01/12/16 21:08 | | |
| Disulfoton | ND | 10 | ng/l | 1 | 01/12/16 21:08 | | |
| Ethoprop | ND | 10 | ng/l | 1 | 01/12/16 21:08 | | |



Pacific Ridgeline Inc.
 230 Dove Ct.
 Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-04 LAILG-NGA-DUP

Sampled: 01/05/16 09:30

Sampled By: Scott Jordan

Matrix: Water

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2

Batch: W6A0444

Prepared: 01/10/16 09:20

Analyst: EFC

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|--|--------|----------|--------|-----|----------------|-----------|
| Ethyl parathion | ND | 10 | ng/l | 1 | 01/12/16 21:08 | |
| Fensulfothion | ND | 10 | ng/l | 1 | 01/12/16 21:08 | |
| Fenthion | ND | 10 | ng/l | 1 | 01/12/16 21:08 | |
| Malathion | ND | 10 | ng/l | 1 | 01/12/16 21:08 | |
| Merphos | ND | 10 | ng/l | 1 | 01/12/16 21:08 | |
| Methyl parathion | ND | 10 | ng/l | 1 | 01/12/16 21:08 | |
| Mevinphos | ND | 10 | ng/l | 1 | 01/12/16 21:08 | |
| Naled | ND | 10 | ng/l | 1 | 01/12/16 21:08 | |
| Phorate | ND | 10 | ng/l | 1 | 01/12/16 21:08 | |
| Ronnel | ND | 10 | ng/l | 1 | 01/12/16 21:08 | |
| Stirophos | ND | 10 | ng/l | 1 | 01/12/16 21:08 | |
| Tokuthion (Prothiofos) | ND | 10 | ng/l | 1 | 01/12/16 21:08 | |
| Trichloronate | ND | 10 | ng/l | 1 | 01/12/16 21:08 | |
| <i>Surr: 1,3-Dimethyl-2-nitrobenzene</i> | 110 % | Conc:550 | 76-128 | % | | |
| <i>Surr: Triphenyl phosphate</i> | 121 % | Conc:607 | 40-163 | % | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-05 LAILG-NGA-FB

Sampled: 01/05/16 10:30

Sampled By: Scott Jordan

Matrix: Water

Anions by IC, EPA Method 300.0

Method: EPA 300.0

Batch: W6A0290

Prepared: 01/07/16 12:00

Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|-----------------|--------|------|-------|-----|----------------|-----------|
| Chloride, Total | ND | 0.50 | mg/l | 1 | 01/07/16 17:05 | |
| Sulfate as SO4 | ND | 0.50 | mg/l | 1 | 01/07/16 17:05 | |

Chlorinated Pesticides and/or PCBs

Method: EPA 608

Batch: W6A0222

Prepared: 01/07/16 08:26

Analyst: par

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---------------------|--------|-----|-------|-----|----------------|-----------|
| 2,4'-DDD | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| 2,4'-DDE | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| 2,4'-DDT | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| 4,4'-DDD | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| 4,4'-DDE | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| 4,4'-DDT | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| Aldrin | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| alpha-BHC | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| alpha-Chlordane | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| Aroclor 1016 | ND | 100 | ng/l | 1 | 01/22/16 03:30 | |
| Aroclor 1221 | ND | 100 | ng/l | 1 | 01/22/16 03:30 | |
| Aroclor 1232 | ND | 100 | ng/l | 1 | 01/22/16 03:30 | |
| Aroclor 1242 | ND | 100 | ng/l | 1 | 01/22/16 03:30 | |
| Aroclor 1248 | ND | 100 | ng/l | 1 | 01/22/16 03:30 | |
| Aroclor 1254 | ND | 100 | ng/l | 1 | 01/22/16 03:30 | |
| Aroclor 1260 | ND | 100 | ng/l | 1 | 01/22/16 03:30 | |
| beta-BHC | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| Chlordane (tech) | ND | 100 | ng/l | 1 | 01/22/16 03:30 | |
| cis-Nonachlor | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| delta-BHC | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| Dieldrin | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| Endosulfan I | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| Endosulfan II | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| Endosulfan sulfate | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| Endrin | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| Endrin aldehyde | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| gamma-BHC (Lindane) | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| gamma-Chlordane | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| Heptachlor | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| Heptachlor epoxide | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| Methoxychlor | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| Mirex | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |
| Toxaphene | ND | 500 | ng/l | 1 | 01/22/16 03:30 | |
| trans-Nonachlor | ND | 5.0 | ng/l | 1 | 01/22/16 03:30 | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-05 LAILG-NGA-FB

Sampled: 01/05/16 10:30

Sampled By: Scott Jordan

Matrix: Water

Chlorinated Pesticides and/or PCBs

| Method: EPA 608 | Batch: W6A0222 | Prepared: 01/07/16 08:26 | Analyst: par | | | |
|-------------------------------|----------------|--------------------------|--------------|-----|----------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Surr: Decachlorobiphenyl | 86 % | Conc:86.3 | 0.1-118 | % | | |
| Surr: Tetrachloro-meta-xylene | 83 % | Conc:83.1 | 12-117 | % | | |

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

| Method: EPA 350.1 | Batch: W6A1015 | Prepared: 01/19/16 15:17 | Analyst: mbc | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Ammonia as N | ND | 0.10 | mg/l | 1 | 01/21/16 16:25 | |

| Method: EPA 353.2 | Batch: W6A0119 | Prepared: 01/05/16 14:07 | Analyst: AJW | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| NO2+NO3 as N | ND | 100 | ug/l | 1 | 01/05/16 16:34 | |

| Method: EPA 365.1 | Batch: W6A0215 | Prepared: 01/06/16 14:18 | Analyst: lac | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| o-Phosphate as P | ND | 0.0020 | mg/l | 1 | 01/06/16 19:15 | ** |

| Method: EPA 365.1 | Batch: W6A0216 | Prepared: 01/06/16 14:20 | Analyst: lac | | | |
|-----------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| o-Phosphate as P, dissolved | ND | 2.0 | ug/l | 1 | 01/06/16 19:40 | ** |

| Method: EPA 365.1 | Batch: W6A0621 | Prepared: 01/12/16 18:52 | Analyst: lac | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Phosphorus as P, Total | ND | 0.010 | mg/l | 1 | 01/14/16 15:37 | |

| Method: EPA 365.1 | Batch: W6A0686 | Prepared: 01/13/16 16:07 | Analyst: lac | | | |
|-----------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Phosphorus, Dissolved | ND | 0.010 | mg/l | 1 | 01/20/16 14:09 | |

| Method: SM 2540C | Batch: W6A0366 | Prepared: 01/08/16 11:19 | Analyst: ajw | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Total Dissolved Solids | ND | 10 | mg/l | 1 | 01/08/16 13:30 | |

| Method: SM 2540D | Batch: W6A0148 | Prepared: 01/05/16 19:30 | Analyst: ajw | | | |
|------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Total Suspended Solids | ND | 5 | mg/l | 1 | 01/05/16 21:10 | |

Metals by EPA 200 Series Methods

| Method: EPA 200.7 | Batch: [CALC] | Prepared: 01/07/16 12:20 | Analyst: jck | | | |
|---------------------------|---------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Calcium Hardness as CaCO3 | ND | 0.250 | mg/l | 1 | 01/12/16 15:19 | |



Pacific Ridgeline Inc.
 230 Dove Ct.
 Santa Paula CA, 93060

Date Received: 01/05/16 12:11
 Date Reported: 01/28/16 11:04

6A05038-05 LAILG-NGA-FB

Sampled: 01/05/16 10:30

Sampled By: Scott Jordan

Matrix: Water

Metals by EPA 200 Series Methods

| Method: EPA 200.7 | Batch: W6A0296 | Prepared: 01/07/16 12:20 | Analyst: jck | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Calcium, Total | ND | 0.100 | mg/l | 1 | 01/12/16 15:19 | |

| Method: EPA 200.8 | Batch: W6A0301 | Prepared: 01/07/16 12:31 | Analyst: rrl | | | |
|-------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Copper, Total | ND | 0.50 | ug/l | 1 | 01/13/16 13:42 | |

Pyrethroid Pesticides by GC/MS SIM

| Method: GC/MS NCI-SIM | Batch: W6A0864 | Prepared: 01/17/16 08:10 | Analyst: EFC | | | |
|---------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Allethrin | ND | 2.0 | ng/l | 1 | 01/23/16 04:06 | |
| Bifenthrin | ND | 2.0 | ng/l | 1 | 01/23/16 04:06 | |
| Cyfluthrin | ND | 2.0 | ng/l | 1 | 01/23/16 04:06 | |
| Cypermethrin | ND | 2.0 | ng/l | 1 | 01/23/16 04:06 | |
| Deltamethrin/Tralomethrin | ND | 2.0 | ng/l | 1 | 01/23/16 04:06 | |
| Dichloran | ND | 2.0 | ng/l | 1 | 01/23/16 04:06 | |
| Fenpropathrin (Danitol) | ND | 2.0 | ng/l | 1 | 01/23/16 04:06 | |
| Fenvalerate/Esfenvalerate | ND | 2.0 | ng/l | 1 | 01/23/16 04:06 | |
| L-Cyhalothrin | ND | 2.0 | ng/l | 1 | 01/23/16 04:06 | |
| Pendimethalin | ND | 2.0 | ng/l | 1 | 01/23/16 04:06 | |
| Permethrin | ND | 5.0 | ng/l | 1 | 01/23/16 04:06 | |
| Prallethrin | ND | 2.0 | ng/l | 1 | 01/23/16 04:06 | |
| Sumithrin (Phenothrin) | ND | 10 | ng/l | 1 | 01/23/16 04:06 | |
| Tefluthrin | ND | 2.0 | ng/l | 1 | 01/23/16 04:06 | |
| Surr: Perylene-d12 | 206 % | Conc:515 | 2-205 | % | | S-GC |
| Surr: Triphenyl phosphate | 122 % | Conc:306 | 6-222 | % | | |

Semivolatile Organic Compounds by GC/MS

| Method: EPA 525.2 | Batch: W6A0444 | Prepared: 01/10/16 09:20 | Analyst: EFC | | | |
|---------------------------|----------------|--------------------------|--------------|-----|----------------|-----------|
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
| Azinphos methyl (Guthion) | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Bolstar | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Chlorpyrifos | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Coumaphos | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Demeton-o | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Demeton-s | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Diazinon | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Dichlorvos | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Dimethoate | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Disulfoton | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Ethoprop | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

6A05038-05 LAILG-NGA-FB

Sampled: 01/05/16 10:30

Sampled By: Scott Jordan

Matrix: Water

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2

Batch: W6A0444

Prepared: 01/10/16 09:20

Analyst: EFC

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|--|--------|----------|--------|-----|----------------|-----------|
| Ethyl parathion | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Fensulfothion | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Fenthion | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Malathion | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Merphos | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Methyl parathion | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Mevinphos | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Naled | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Phorate | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Ronnel | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Stirophos | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Tokuthion (Prothiofos) | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| Trichloronate | ND | 10 | ng/l | 1 | 01/12/16 21:34 | |
| <i>Surr: 1,3-Dimethyl-2-nitrobenzene</i> | 112 % | Conc:562 | 76-128 | % | | |
| <i>Surr: Triphenyl phosphate</i> | 106 % | Conc:531 | 40-163 | % | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

QUALITY CONTROL SECTION



Pacific Ridgeline Inc.
 230 Dove Ct.
 Santa Paula CA, 93060

Date Received: 01/05/16 12:11
 Date Reported: 01/28/16 11:04

Anions by IC, EPA Method 300.0 - Quality Control

Batch W6A0290 - EPA 300.0

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|------|-------|---------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W6A0290-BLK1) | | | | Analyzed: 01/07/16 12:35 | | | | | | |
| Chloride, Total | ND | 0.50 | mg/l | | | | | | | |
| Sulfate as SO4 | ND | 0.50 | mg/l | | | | | | | |
| LCS (W6A0290-BS1) | | | | Analyzed: 01/07/16 12:53 | | | | | | |
| Chloride, Total | 3.67 | 0.50 | mg/l | 4.00 | | 92 | 90-110 | | | |
| Sulfate as SO4 | 8.38 | 0.50 | mg/l | 8.00 | | 105 | 90-110 | | | |
| Matrix Spike (W6A0290-MS1) | | | | Source: 6A06054-05 | | Analyzed: 01/07/16 13:58 | | | | |
| Chloride, Total | 38.6 | 5.0 | mg/l | 40.0 | 2.67 | 90 | 76-118 | | | |
| Sulfate as SO4 | 107 | 5.0 | mg/l | 80.0 | 21.3 | 107 | 78-111 | | | |
| Matrix Spike (W6A0290-MS2) | | | | Source: 6A06054-08 | | Analyzed: 01/07/16 15:09 | | | | |
| Chloride, Total | 43.4 | 5.0 | mg/l | 40.0 | 5.82 | 94 | 76-118 | | | |
| Sulfate as SO4 | 90.7 | 5.0 | mg/l | 80.0 | 11.3 | 99 | 78-111 | | | |
| Matrix Spike Dup (W6A0290-MSD1) | | | | Source: 6A06054-05 | | Analyzed: 01/07/16 14:36 | | | | |
| Chloride, Total | 38.0 | 5.0 | mg/l | 40.0 | 2.67 | 88 | 76-118 | 1 | 20 | |
| Sulfate as SO4 | 102 | 5.0 | mg/l | 80.0 | 21.3 | 101 | 78-111 | 5 | 20 | |
| Matrix Spike Dup (W6A0290-MSD2) | | | | Source: 6A06054-08 | | Analyzed: 01/07/16 15:25 | | | | |
| Chloride, Total | 42.4 | 5.0 | mg/l | 40.0 | 5.82 | 92 | 76-118 | 2 | 20 | |
| Sulfate as SO4 | 97.0 | 5.0 | mg/l | 80.0 | 11.3 | 107 | 78-111 | 7 | 20 | |

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W6A0222 - EPA 608

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-----|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W6A0222-BLK1) | | | | Analyzed: 01/21/16 21:22 | | | | | | |
| 2,4'-DDD | ND | 5.0 | ng/l | | | | | | | |
| 2,4'-DDE | ND | 5.0 | ng/l | | | | | | | |
| 2,4'-DDT | ND | 5.0 | ng/l | | | | | | | |
| 4,4'-DDD | ND | 5.0 | ng/l | | | | | | | |
| 4,4'-DDE | ND | 5.0 | ng/l | | | | | | | |
| 4,4'-DDT | ND | 5.0 | ng/l | | | | | | | |
| Aldrin | ND | 5.0 | ng/l | | | | | | | |
| alpha-BHC | ND | 5.0 | ng/l | | | | | | | |
| alpha-Chlordane | ND | 5.0 | ng/l | | | | | | | |
| Aroclor 1016 | ND | 100 | ng/l | | | | | | | |
| Aroclor 1221 | ND | 100 | ng/l | | | | | | | |
| Aroclor 1232 | ND | 100 | ng/l | | | | | | | |
| Aroclor 1242 | ND | 100 | ng/l | | | | | | | |
| Aroclor 1248 | ND | 100 | ng/l | | | | | | | |
| Aroclor 1254 | ND | 100 | ng/l | | | | | | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W6A0222 - EPA 608

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--------------------------------------|--------|-----|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W6A0222-BLK1) | | | | Analyzed: 01/21/16 21:22 | | | | | | |
| Aroclor 1260 | ND | 100 | ng/l | | | | | | | |
| beta-BHC | ND | 5.0 | ng/l | | | | | | | |
| Chlordane (tech) | ND | 100 | ng/l | | | | | | | |
| cis-Nonachlor | ND | 5.0 | ng/l | | | | | | | |
| delta-BHC | ND | 5.0 | ng/l | | | | | | | |
| Dieldrin | ND | 5.0 | ng/l | | | | | | | |
| Endosulfan I | ND | 5.0 | ng/l | | | | | | | |
| Endosulfan II | ND | 5.0 | ng/l | | | | | | | |
| Endosulfan sulfate | ND | 5.0 | ng/l | | | | | | | |
| Endrin | ND | 5.0 | ng/l | | | | | | | |
| Endrin aldehyde | ND | 5.0 | ng/l | | | | | | | |
| gamma-BHC (Lindane) | ND | 5.0 | ng/l | | | | | | | |
| gamma-Chlordane | ND | 5.0 | ng/l | | | | | | | |
| Heptachlor | ND | 5.0 | ng/l | | | | | | | |
| Heptachlor epoxide | ND | 5.0 | ng/l | | | | | | | |
| Methoxychlor | ND | 5.0 | ng/l | | | | | | | |
| Mirex | ND | 5.0 | ng/l | | | | | | | |
| Toxaphene | ND | 500 | ng/l | | | | | | | |
| trans-Nonachlor | ND | 5.0 | ng/l | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 90.5 | | ng/l | 100 | | 91 | 0.1-118 | | | |
| <i>Surr: Tetrachloro-meta-xylene</i> | 76.4 | | ng/l | 100 | | 76 | 12-117 | | | |
| Blank (W6A0222-BLK2) | | | | Analyzed: 01/21/16 21:53 | | | | | | |
| 2,4'-DDD | ND | 5.0 | ng/l | | | | | | | |
| 2,4'-DDE | ND | 5.0 | ng/l | | | | | | | |
| 2,4'-DDT | ND | 5.0 | ng/l | | | | | | | |
| 4,4'-DDD | ND | 5.0 | ng/l | | | | | | | |
| 4,4'-DDE | ND | 5.0 | ng/l | | | | | | | |
| 4,4'-DDT | ND | 5.0 | ng/l | | | | | | | |
| Aldrin | ND | 5.0 | ng/l | | | | | | | |
| alpha-BHC | ND | 5.0 | ng/l | | | | | | | |
| alpha-Chlordane | ND | 5.0 | ng/l | | | | | | | |
| Aroclor 1016 | ND | 100 | ng/l | | | | | | | |
| Aroclor 1221 | ND | 100 | ng/l | | | | | | | |
| Aroclor 1232 | ND | 100 | ng/l | | | | | | | |
| Aroclor 1242 | ND | 100 | ng/l | | | | | | | |
| Aroclor 1248 | ND | 100 | ng/l | | | | | | | |
| Aroclor 1254 | ND | 100 | ng/l | | | | | | | |
| Aroclor 1260 | ND | 100 | ng/l | | | | | | | |
| beta-BHC | ND | 5.0 | ng/l | | | | | | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W6A0222 - EPA 608

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-------------------------------|--------|-----|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W6A0222-BLK2) | | | | Analyzed: 01/21/16 21:53 | | | | | | |
| Chlordane (tech) | ND | 100 | ng/l | | | | | | | |
| cis-Nonachlor | ND | 5.0 | ng/l | | | | | | | |
| delta-BHC | ND | 5.0 | ng/l | | | | | | | |
| Dieldrin | ND | 5.0 | ng/l | | | | | | | |
| Endosulfan I | ND | 5.0 | ng/l | | | | | | | |
| Endosulfan II | ND | 5.0 | ng/l | | | | | | | |
| Endosulfan sulfate | ND | 5.0 | ng/l | | | | | | | |
| Endrin | ND | 5.0 | ng/l | | | | | | | |
| Endrin aldehyde | ND | 5.0 | ng/l | | | | | | | |
| gamma-BHC (Lindane) | ND | 5.0 | ng/l | | | | | | | |
| gamma-Chlordane | ND | 5.0 | ng/l | | | | | | | |
| Heptachlor | ND | 5.0 | ng/l | | | | | | | |
| Heptachlor epoxide | ND | 5.0 | ng/l | | | | | | | |
| Methoxychlor | ND | 5.0 | ng/l | | | | | | | |
| Mirex | ND | 5.0 | ng/l | | | | | | | |
| Toxaphene | ND | 500 | ng/l | | | | | | | |
| trans-Nonachlor | ND | 5.0 | ng/l | | | | | | | |
| Surr: Decachlorobiphenyl | 98.0 | | ng/l | 100 | | 98 | 0.1-118 | | | |
| Surr: Tetrachloro-meta-xylene | 80.6 | | ng/l | 100 | | 81 | 12-117 | | | |
| LCS (W6A0222-BS1) | | | | Analyzed: 01/21/16 22:24 | | | | | | |
| 4,4'-DDD | 91.3 | 5.0 | ng/l | 100 | | 91 | 42-133 | | | |
| 4,4'-DDE | 89.3 | 5.0 | ng/l | 100 | | 89 | 33-126 | | | |
| 4,4'-DDT | 97.8 | 5.0 | ng/l | 100 | | 98 | 35-147 | | | |
| Aldrin | 85.9 | 5.0 | ng/l | 100 | | 86 | 18-117 | | | |
| alpha-BHC | 88.8 | 5.0 | ng/l | 100 | | 89 | 47-119 | | | |
| beta-BHC | 95.5 | 5.0 | ng/l | 100 | | 95 | 53-123 | | | |
| delta-BHC | 103 | 5.0 | ng/l | 100 | | 103 | 51-123 | | | |
| Dieldrin | 90.8 | 5.0 | ng/l | 100 | | 91 | 48-123 | | | |
| Endosulfan I | 78.1 | 5.0 | ng/l | 100 | | 78 | 14-131 | | | |
| Endosulfan II | 81.6 | 5.0 | ng/l | 100 | | 82 | 40-121 | | | |
| Endosulfan sulfate | 109 | 5.0 | ng/l | 100 | | 109 | 44-140 | | | |
| Endrin | 92.4 | 5.0 | ng/l | 100 | | 92 | 40-143 | | | |
| Endrin aldehyde | 87.4 | 5.0 | ng/l | 100 | | 87 | 18-136 | | | |
| gamma-BHC (Lindane) | 89.7 | 5.0 | ng/l | 100 | | 90 | 49-117 | | | |
| Heptachlor | 89.0 | 5.0 | ng/l | 100 | | 89 | 31-130 | | | |
| Heptachlor epoxide | 87.6 | 5.0 | ng/l | 100 | | 88 | 49-122 | | | |
| Surr: Decachlorobiphenyl | 98.6 | | ng/l | 100 | | 99 | 0.1-118 | | | |
| Surr: Tetrachloro-meta-xylene | 78.7 | | ng/l | 100 | | 79 | 12-117 | | | |
| LCS (W6A0222-BS2) | | | | Analyzed: 01/21/16 23:25 | | | | | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W6A0222 - EPA 608

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-------------------------------|--------|-----|-------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| LCS (W6A0222-BS2) | | | | | | | | | | |
| Analyzed: 01/21/16 23:25 | | | | | | | | | | |
| 4,4'-DDD | 86.5 | 5.0 | ng/l | 100 | | 87 | 42-133 | | | |
| 4,4'-DDE | 84.2 | 5.0 | ng/l | 100 | | 84 | 33-126 | | | |
| 4,4'-DDT | 92.7 | 5.0 | ng/l | 100 | | 93 | 35-147 | | | |
| Aldrin | 80.1 | 5.0 | ng/l | 100 | | 80 | 18-117 | | | |
| alpha-BHC | 84.9 | 5.0 | ng/l | 100 | | 85 | 47-119 | | | |
| beta-BHC | 91.4 | 5.0 | ng/l | 100 | | 91 | 53-123 | | | |
| delta-BHC | 99.0 | 5.0 | ng/l | 100 | | 99 | 51-123 | | | |
| Dieldrin | 86.3 | 5.0 | ng/l | 100 | | 86 | 48-123 | | | |
| Endosulfan I | 74.3 | 5.0 | ng/l | 100 | | 74 | 14-131 | | | |
| Endosulfan II | 77.4 | 5.0 | ng/l | 100 | | 77 | 40-121 | | | |
| Endosulfan sulfate | 109 | 5.0 | ng/l | 100 | | 109 | 44-140 | | | |
| Endrin | 87.5 | 5.0 | ng/l | 100 | | 88 | 40-143 | | | |
| Endrin aldehyde | 82.1 | 5.0 | ng/l | 100 | | 82 | 18-136 | | | |
| gamma-BHC (Lindane) | 85.6 | 5.0 | ng/l | 100 | | 86 | 49-117 | | | |
| Heptachlor | 83.3 | 5.0 | ng/l | 100 | | 83 | 31-130 | | | |
| Heptachlor epoxide | 83.3 | 5.0 | ng/l | 100 | | 83 | 49-122 | | | |
| Surr: Decachlorobiphenyl | 92.1 | | ng/l | 100 | | 92 | 0.1-118 | | | |
| Surr: Tetrachloro-meta-xylene | 77.4 | | ng/l | 100 | | 77 | 12-117 | | | |
| LCS Dup (W6A0222-BSD1) | | | | | | | | | | |
| Analyzed: 01/21/16 22:54 | | | | | | | | | | |
| 4,4'-DDD | 86.0 | 5.0 | ng/l | 100 | | 86 | 42-133 | 6 | 30 | |
| 4,4'-DDE | 82.0 | 5.0 | ng/l | 100 | | 82 | 33-126 | 9 | 30 | |
| 4,4'-DDT | 91.9 | 5.0 | ng/l | 100 | | 92 | 35-147 | 6 | 30 | |
| Aldrin | 78.8 | 5.0 | ng/l | 100 | | 79 | 18-117 | 9 | 30 | |
| alpha-BHC | 81.5 | 5.0 | ng/l | 100 | | 82 | 47-119 | 8 | 30 | |
| beta-BHC | 91.4 | 5.0 | ng/l | 100 | | 91 | 53-123 | 4 | 30 | |
| delta-BHC | 98.0 | 5.0 | ng/l | 100 | | 98 | 51-123 | 5 | 30 | |
| Dieldrin | 84.5 | 5.0 | ng/l | 100 | | 85 | 48-123 | 7 | 30 | |
| Endosulfan I | 72.5 | 5.0 | ng/l | 100 | | 73 | 14-131 | 7 | 30 | |
| Endosulfan II | 76.7 | 5.0 | ng/l | 100 | | 77 | 40-121 | 6 | 30 | |
| Endosulfan sulfate | 103 | 5.0 | ng/l | 100 | | 103 | 44-140 | 6 | 30 | |
| Endrin | 84.6 | 5.0 | ng/l | 100 | | 85 | 40-143 | 9 | 30 | |
| Endrin aldehyde | 79.7 | 5.0 | ng/l | 100 | | 80 | 18-136 | 9 | 30 | |
| gamma-BHC (Lindane) | 82.1 | 5.0 | ng/l | 100 | | 82 | 49-117 | 9 | 30 | |
| Heptachlor | 81.8 | 5.0 | ng/l | 100 | | 82 | 31-130 | 8 | 30 | |
| Heptachlor epoxide | 81.5 | 5.0 | ng/l | 100 | | 82 | 49-122 | 7 | 30 | |
| Surr: Decachlorobiphenyl | 90.8 | | ng/l | 100 | | 91 | 0.1-118 | | | |
| Surr: Tetrachloro-meta-xylene | 72.5 | | ng/l | 100 | | 73 | 12-117 | | | |
| LCS Dup (W6A0222-BSD2) | | | | | | | | | | |
| Analyzed: 01/21/16 23:56 | | | | | | | | | | |
| 4,4'-DDD | 95.3 | 5.0 | ng/l | 100 | | 95 | 42-133 | 10 | 30 | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W6A0222 - EPA 608

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-------------------------------|--------|-----|-------|--------------------------|---------------|------|--------------|------|-----------|-----------------|
| LCS Dup (W6A0222-BSD2) | | | | Analyzed: 01/21/16 23:56 | | | | | | |
| 4,4'-DDE | 90.5 | 5.0 | ng/l | 100 | | 90 | 33-126 | 7 | 30 | |
| 4,4'-DDT | 101 | 5.0 | ng/l | 100 | | 101 | 35-147 | 9 | 30 | |
| Aldrin | 86.2 | 5.0 | ng/l | 100 | | 86 | 18-117 | 7 | 30 | |
| alpha-BHC | 89.9 | 5.0 | ng/l | 100 | | 90 | 47-119 | 6 | 30 | |
| beta-BHC | 97.4 | 5.0 | ng/l | 100 | | 97 | 53-123 | 6 | 30 | |
| delta-BHC | 105 | 5.0 | ng/l | 100 | | 105 | 51-123 | 5 | 30 | |
| Dieldrin | 91.4 | 5.0 | ng/l | 100 | | 91 | 48-123 | 6 | 30 | |
| Endosulfan I | 78.7 | 5.0 | ng/l | 100 | | 79 | 14-131 | 6 | 30 | |
| Endosulfan II | 84.0 | 5.0 | ng/l | 100 | | 84 | 40-121 | 8 | 30 | |
| Endosulfan sulfate | 109 | 5.0 | ng/l | 100 | | 109 | 44-140 | 0.05 | 30 | |
| Endrin | 93.8 | 5.0 | ng/l | 100 | | 94 | 40-143 | 7 | 30 | |
| Endrin aldehyde | 93.7 | 5.0 | ng/l | 100 | | 94 | 18-136 | 13 | 30 | |
| gamma-BHC (Lindane) | 89.9 | 5.0 | ng/l | 100 | | 90 | 49-117 | 5 | 30 | |
| Heptachlor | 92.8 | 5.0 | ng/l | 100 | | 93 | 31-130 | 11 | 30 | |
| Heptachlor epoxide | 87.7 | 5.0 | ng/l | 100 | | 88 | 49-122 | 5 | 30 | |
| Surr: Decachlorobiphenyl | 100 | | ng/l | 100 | | 100 | 0.1-118 | | | |
| Surr: Tetrachloro-meta-xylene | 82.9 | | ng/l | 100 | | 83 | 12-117 | | | |

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W6A0119 - EPA 353.2

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----|-------|---|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W6A0119-BLK1) | | | | Analyzed: 01/05/16 16:23 | | | | | | |
| NO2+NO3 as N | ND | 100 | ug/l | | | | | | | |
| LCS (W6A0119-BS1) | | | | Analyzed: 01/05/16 16:25 | | | | | | |
| NO2+NO3 as N | 1030 | 100 | ug/l | 1000 | | 103 | 90-110 | | | |
| Matrix Spike (W6A0119-MS1) | | | | Source: 6A05038-01 Analyzed: 01/05/16 16:30 | | | | | | |
| NO2+NO3 as N | 2040 | 100 | ug/l | 2000 | ND | 102 | 90-110 | | | |
| Matrix Spike (W6A0119-MS2) | | | | Source: 6A05038-05 Analyzed: 01/05/16 16:36 | | | | | | |
| NO2+NO3 as N | 2010 | 100 | ug/l | 2000 | ND | 100 | 90-110 | | | |
| Matrix Spike Dup (W6A0119-MSD1) | | | | Source: 6A05038-01 Analyzed: 01/05/16 16:32 | | | | | | |
| NO2+NO3 as N | 2080 | 100 | ug/l | 2000 | ND | 104 | 90-110 | 2 | 20 | |
| Matrix Spike Dup (W6A0119-MSD2) | | | | Source: 6A05038-05 Analyzed: 01/05/16 16:38 | | | | | | |
| NO2+NO3 as N | 2030 | 100 | ug/l | 2000 | ND | 101 | 90-110 | 0.9 | 20 | |

Batch W6A0142 - SM 2540D

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-----|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W6A0142-BLK1) | | | | Analyzed: 01/05/16 19:15 | | | | | | |
| Total Suspended Solids | ND | 5 | mg/l | | | | | | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W6A0142 - SM 2540D

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---------------------------------|--------|-----|-------|---------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Duplicate (W6A0142-DUP1) | | | | Source: 6A05031-01 | | Analyzed: 01/05/16 19:15 | | | | |
| Total Suspended Solids | 29.0 | 5 | mg/l | | 27.0 | | | 7 | 20 | |
| Duplicate (W6A0142-DUP2) | | | | Source: 6A05031-02 | | Analyzed: 01/05/16 19:15 | | | | |
| Total Suspended Solids | 41.0 | 5 | mg/l | | 39.0 | | | 5 | 20 | |

Batch W6A0148 - SM 2540D

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---------------------------------|--------|-----|-------|---------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W6A0148-BLK1) | | | | Analyzed: 01/05/16 21:10 | | | | | | |
| Total Suspended Solids | ND | 5 | mg/l | | | | | | | |
| Duplicate (W6A0148-DUP1) | | | | Source: 6A05038-05 | | Analyzed: 01/05/16 21:10 | | | | |
| Total Suspended Solids | ND | 5 | mg/l | | 0.00 | | | NR | 20 | |
| Duplicate (W6A0148-DUP2) | | | | Source: 6A05043-01 | | Analyzed: 01/05/16 21:10 | | | | |
| Total Suspended Solids | 14.0 | 5 | mg/l | | 13.0 | | | 7 | 20 | |

Batch W6A0215 - EPA 365.1

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|---------|--------|-------|---------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W6A0215-BLK1) | | | | Analyzed: 01/06/16 18:58 | | | | | | |
| o-Phosphate as P | ND | 0.0020 | mg/l | | | | | | | |
| LCS (W6A0215-BS1) | | | | Analyzed: 01/06/16 19:00 | | | | | | |
| o-Phosphate as P | 0.0492 | 0.0020 | mg/l | 0.0500 | | 98 | 90-110 | | | |
| Duplicate (W6A0215-DUP1) | | | | Source: 6A06041-01 | | Analyzed: 01/06/16 19:07 | | | | |
| o-Phosphate as P | 0.00110 | 0.0020 | mg/l | | 0.00142 | | | 25 | 20 | R-03 |
| Matrix Spike (W6A0215-MS1) | | | | Source: 6A06043-01 | | Analyzed: 01/06/16 19:18 | | | | |
| o-Phosphate as P | 0.565 | 0.010 | mg/l | 0.250 | 0.338 | 91 | 90-110 | | | |
| Matrix Spike Dup (W6A0215-MSD1) | | | | Source: 6A06043-01 | | Analyzed: 01/06/16 19:20 | | | | |
| o-Phosphate as P | 0.565 | 0.010 | mg/l | 0.250 | 0.338 | 91 | 90-110 | NR | 20 | |

Batch W6A0216 - EPA 365.1

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----|-------|---------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W6A0216-BLK1) | | | | Analyzed: 01/06/16 19:33 | | | | | | |
| o-Phosphate as P, dissolved | ND | 2.0 | ug/l | | | | | | | |
| LCS (W6A0216-BS1) | | | | Analyzed: 01/06/16 19:34 | | | | | | |
| o-Phosphate as P, dissolved | 49.7 | 2.0 | ug/l | 50.0 | | 99 | 90-110 | | | |
| Matrix Spike (W6A0216-MS1) | | | | Source: 6A05038-05 | | Analyzed: 01/06/16 19:37 | | | | |
| o-Phosphate as P, dissolved | 52.0 | 2.0 | ug/l | 50.0 | 1.02 | 102 | 90-110 | | | |
| Matrix Spike Dup (W6A0216-MSD1) | | | | Source: 6A05038-05 | | Analyzed: 01/06/16 19:39 | | | | |
| o-Phosphate as P, dissolved | 52.4 | 2.0 | ug/l | 50.0 | 1.02 | 103 | 90-110 | 0.8 | 20 | |

Batch W6A0366 - SM 2540C

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-----|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W6A0366-BLK1) | | | | Analyzed: 01/08/16 13:30 | | | | | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W6A0366 - SM 2540C

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---------------------------------|--------|-----|-------|---|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W6A0366-BLK1) | | | | Analyzed: 01/08/16 13:30 | | | | | | |
| Total Dissolved Solids | ND | 10 | mg/l | | | | | | | |
| LCS (W6A0366-BS1) | | | | Analyzed: 01/08/16 13:30 | | | | | | |
| Total Dissolved Solids | 801 | 10 | mg/l | 824 | | 97 | 96-102 | | | |
| Duplicate (W6A0366-DUP1) | | | | Source: 6A05089-01 Analyzed: 01/08/16 13:30 | | | | | | |
| Total Dissolved Solids | 80.0 | 10 | mg/l | | 79.0 | | | 1 | 10 | |
| Duplicate (W6A0366-DUP2) | | | | Source: 6A05093-01 Analyzed: 01/08/16 13:30 | | | | | | |
| Total Dissolved Solids | 594 | 10 | mg/l | | 579 | | | 3 | 10 | |

Batch W6A0621 - EPA 365.1

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-------|-------|---|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W6A0621-BLK1) | | | | Analyzed: 01/14/16 15:35 | | | | | | |
| Phosphorus as P, Total | ND | 0.010 | mg/l | | | | | | | |
| LCS (W6A0621-BS1) | | | | Analyzed: 01/14/16 15:36 | | | | | | |
| Phosphorus as P, Total | 0.0495 | 0.010 | mg/l | 0.0500 | | 99 | 90-110 | | | |
| Duplicate (W6A0621-DUP1) | | | | Source: 6A05038-05 Analyzed: 01/14/16 15:42 | | | | | | |
| Phosphorus as P, Total | ND | 0.010 | mg/l | | ND | | | NR | 20 | |
| Matrix Spike (W6A0621-MS1) | | | | Source: 6A05038-05 Analyzed: 01/14/16 15:39 | | | | | | |
| Phosphorus as P, Total | 0.0458 | 0.010 | mg/l | 0.0500 | ND | 92 | 90-110 | | | |
| Matrix Spike (W6A0621-MS2) | | | | Source: 6A05089-01 Analyzed: 01/14/16 15:45 | | | | | | |
| Phosphorus as P, Total | 0.274 | 0.020 | mg/l | 0.100 | 0.169 | 105 | 90-110 | | | |
| Matrix Spike Dup (W6A0621-MSD1) | | | | Source: 6A05038-05 Analyzed: 01/14/16 15:40 | | | | | | |
| Phosphorus as P, Total | 0.0466 | 0.010 | mg/l | 0.0500 | ND | 93 | 90-110 | 2 | 20 | |
| Matrix Spike Dup (W6A0621-MSD2) | | | | Source: 6A05089-01 Analyzed: 01/14/16 15:46 | | | | | | |
| Phosphorus as P, Total | 0.270 | 0.020 | mg/l | 0.100 | 0.169 | 101 | 90-110 | 1 | 20 | |

Batch W6A0686 - EPA 365.1

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-------|-------|---|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W6A0686-BLK1) | | | | Analyzed: 01/20/16 14:06 | | | | | | |
| Phosphorus, Dissolved | ND | 0.010 | mg/l | | | | | | | |
| LCS (W6A0686-BS1) | | | | Analyzed: 01/20/16 14:07 | | | | | | |
| Phosphorus, Dissolved | 0.0504 | 0.010 | mg/l | 0.0500 | | 101 | 90-110 | | | |
| Duplicate (W6A0686-DUP1) | | | | Source: 6A05038-05 Analyzed: 01/20/16 14:13 | | | | | | |
| Phosphorus, Dissolved | ND | 0.010 | mg/l | | ND | | | NR | 20 | |
| Matrix Spike (W6A0686-MS1) | | | | Source: 6A05038-05 Analyzed: 01/20/16 14:10 | | | | | | |
| Phosphorus, Dissolved | 0.0509 | 0.010 | mg/l | 0.0500 | ND | 102 | 90-110 | | | |
| Matrix Spike (W6A0686-MS2) | | | | Source: 6A05089-01 Analyzed: 01/20/16 14:16 | | | | | | |
| Phosphorus, Dissolved | 0.191 | 0.010 | mg/l | 0.0500 | 0.145 | 92 | 90-110 | | | |
| Matrix Spike Dup (W6A0686-MSD1) | | | | Source: 6A05038-05 Analyzed: 01/20/16 14:17 | | | | | | |
| Phosphorus, Dissolved | 0.0504 | 0.010 | mg/l | 0.0500 | ND | 101 | 90-110 | 1 | 20 | |
| Matrix Spike Dup (W6A0686-MSD2) | | | | Source: 6A05089-01 Analyzed: 01/20/16 14:19 | | | | | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W6A0686 - EPA 365.1

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------|--------|-------|-------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| Phosphorus, Dissolved | 0.193 | 0.010 | mg/l | 0.0500 | 0.145 | 96 | 90-110 | 1 | 20 | |

Batch W6A0812 - EPA 365.1

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-------|-------|---|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W6A0812-BLK1) | | | | Analyzed: 01/20/16 15:00 | | | | | | |
| Phosphorus, Dissolved | ND | 0.010 | mg/l | | | | | | | |
| LCS (W6A0812-BS1) | | | | Analyzed: 01/20/16 15:02 | | | | | | |
| Phosphorus, Dissolved | 0.0512 | 0.010 | mg/l | 0.0500 | | 102 | 90-110 | | | |
| Duplicate (W6A0812-DUP1) | | | | Source: 6A05038-01 Analyzed: 01/20/16 15:09 | | | | | | |
| Phosphorus, Dissolved | ND | 0.010 | mg/l | | 0.00183 | | | NR | 20 | R-03 |
| Matrix Spike (W6A0812-MS1) | | | | Source: 6A06043-01 Analyzed: 01/20/16 15:05 | | | | | | |
| Phosphorus, Dissolved | 0.394 | 0.020 | mg/l | 0.100 | 0.296 | 98 | 90-110 | | | |
| Matrix Spike Dup (W6A0812-MSD1) | | | | Source: 6A06043-01 Analyzed: 01/20/16 15:06 | | | | | | |
| Phosphorus, Dissolved | 0.390 | 0.020 | mg/l | 0.100 | 0.296 | 94 | 90-110 | 1 | 20 | |

Batch W6A1015 - EPA 350.1

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|------|-------|---|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W6A1015-BLK1) | | | | Analyzed: 01/21/16 16:25 | | | | | | |
| Ammonia as N | ND | 0.10 | mg/l | | | | | | | |
| LCS (W6A1015-BS1) | | | | Analyzed: 01/21/16 16:25 | | | | | | |
| Ammonia as N | 0.241 | 0.10 | mg/l | 0.250 | | 96 | 90-110 | | | |
| Matrix Spike (W6A1015-MS1) | | | | Source: 6A05038-05 Analyzed: 01/21/16 16:25 | | | | | | |
| Ammonia as N | 0.239 | 0.10 | mg/l | 0.250 | ND | 96 | 90-110 | | | |
| Matrix Spike Dup (W6A1015-MSD1) | | | | Source: 6A05038-05 Analyzed: 01/21/16 16:25 | | | | | | |
| Ammonia as N | 0.230 | 0.10 | mg/l | 0.250 | ND | 92 | 90-110 | 4 | 15 | |

Metals by EPA 200 Series Methods - Quality Control

Batch W6A0296 - EPA 200.7

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-------|-------|---|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W6A0296-BLK1) | | | | Analyzed: 01/12/16 14:25 | | | | | | |
| Calcium, Total | ND | 0.100 | mg/l | | | | | | | |
| LCS (W6A0296-BS1) | | | | Analyzed: 01/12/16 14:31 | | | | | | |
| Calcium, Total | 48.3 | 0.100 | mg/l | 50.2 | | 96 | 85-115 | | | |
| Matrix Spike (W6A0296-MS1) | | | | Source: 6A05081-01 Analyzed: 01/12/16 15:32 | | | | | | |
| Calcium, Total | 65.4 | 0.100 | mg/l | 50.2 | 18.0 | 94 | 70-130 | | | |
| Matrix Spike (W6A0296-MS2) | | | | Source: 6A05008-05 Analyzed: 01/12/16 15:37 | | | | | | |
| Calcium, Total | 50.3 | 0.100 | mg/l | 50.2 | 4.67 | 91 | 70-130 | | | |
| Matrix Spike Dup (W6A0296-MSD1) | | | | Source: 6A05081-01 Analyzed: 01/12/16 15:35 | | | | | | |
| Calcium, Total | 65.7 | 0.100 | mg/l | 50.2 | 18.0 | 95 | 70-130 | 0.5 | 30 | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

Metals by EPA 200 Series Methods - Quality Control

Batch W6A0296 - EPA 200.7

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-------|-------|---------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Matrix Spike Dup (W6A0296-MSD2) | | | | Source: 6A05008-05 | | Analyzed: 01/12/16 15:40 | | | | |
| Calcium, Total | 50.5 | 0.100 | mg/l | 50.2 | 4.67 | 91 | 70-130 | 0.5 | 30 | |

Batch W6A0301 - EPA 200.8

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|------|-------|---------------------------|---------------|--------------------------|--------------|-----|-----------|-----------------|
| Blank (W6A0301-BLK1) | | | | Analyzed: 01/13/16 12:12 | | | | | | |
| Copper, Total | ND | 0.50 | ug/l | | | | | | | |
| LCS (W6A0301-BS1) | | | | Analyzed: 01/13/16 11:54 | | | | | | |
| Copper, Total | 48.2 | 0.50 | ug/l | 50.0 | | 96 | 85-115 | | | |
| Matrix Spike (W6A0301-MS1) | | | | Source: 6A05038-01 | | Analyzed: 01/13/16 12:51 | | | | |
| Copper, Total | 48.1 | 0.50 | ug/l | 50.0 | 0.479 | 95 | 70-130 | | | |
| Matrix Spike (W6A0301-MS2) | | | | Source: 6A05038-05 | | Analyzed: 01/13/16 13:47 | | | | |
| Copper, Total | 46.3 | 0.50 | ug/l | 50.0 | ND | 93 | 70-130 | | | |
| Matrix Spike Dup (W6A0301-MSD1) | | | | Source: 6A05038-01 | | Analyzed: 01/13/16 12:55 | | | | |
| Copper, Total | 48.8 | 0.50 | ug/l | 50.0 | 0.479 | 97 | 70-130 | 1 | 30 | |
| Matrix Spike Dup (W6A0301-MSD2) | | | | Source: 6A05038-05 | | Analyzed: 01/13/16 13:51 | | | | |
| Copper, Total | 48.9 | 0.50 | ug/l | 50.0 | ND | 98 | 70-130 | 5 | 30 | |

Pyrethroid Pesticides by GC/MS SIM - Quality Control

Batch W6A0864 - GC/MS NCI-SIM

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-----|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W6A0864-BLK1) | | | | Analyzed: 01/22/16 23:13 | | | | | | |
| Allethrin | ND | 2.0 | ng/l | | | | | | | |
| Bifenthrin | ND | 2.0 | ng/l | | | | | | | |
| Cyfluthrin | ND | 2.0 | ng/l | | | | | | | |
| Cypermethrin | ND | 2.0 | ng/l | | | | | | | |
| Deltamethrin/Tralomethrin | ND | 2.0 | ng/l | | | | | | | |
| Dichloran | ND | 2.0 | ng/l | | | | | | | |
| Fenpropathrin (Danitol) | ND | 2.0 | ng/l | | | | | | | |
| Fenvalerate/Esfenvalerate | ND | 2.0 | ng/l | | | | | | | |
| L-Cyhalothrin | ND | 2.0 | ng/l | | | | | | | |
| Pendimethalin | ND | 2.0 | ng/l | | | | | | | |
| Permethrin | ND | 5.0 | ng/l | | | | | | | |
| Prallethrin | ND | 2.0 | ng/l | | | | | | | |
| Sumithrin (Phenothrin) | ND | 10 | ng/l | | | | | | | |
| Tefluthrin | ND | 2.0 | ng/l | | | | | | | |
| Surr: Perylene-d12 | 174 | | ng/l | 250 | | 70 | 2-205 | | | |
| Surr: Triphenyl phosphate | 212 | | ng/l | 250 | | 85 | 6-222 | | | |
| LCS (W6A0864-BS1) | | | | Analyzed: 01/22/16 23:46 | | | | | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

Pyrethroid Pesticides by GC/MS SIM - Quality Control

Batch W6A0864 - GC/MS NCI-SIM

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---------------------------|--------|-----|-------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| Analyzed: 01/22/16 23:46 | | | | | | | | | | |
| LCS (W6A0864-BS1) | | | | | | | | | | |
| Allethrin | 41.2 | 2.0 | ng/l | 50.0 | | 82 | 23-149 | | | |
| Bifenthrin | 54.1 | 2.0 | ng/l | 50.0 | | 108 | 26-153 | | | |
| Cyfluthrin | 42.8 | 2.0 | ng/l | 50.0 | | 86 | 3-168 | | | |
| Cypermethrin | 43.4 | 2.0 | ng/l | 50.0 | | 87 | 2-169 | | | |
| Deltamethrin/Tralomethrin | 28.1 | 2.0 | ng/l | 50.0 | | 56 | 0.1-252 | | | |
| Dichloran | 45.1 | 2.0 | ng/l | 50.0 | | 90 | 53-161 | | | |
| Fenpropathrin (Danitol) | 54.6 | 2.0 | ng/l | 50.0 | | 109 | 28-154 | | | |
| Fenvalerate/Esfenvalerate | 41.2 | 2.0 | ng/l | 50.0 | | 82 | 35-133 | | | |
| L-Cyhalothrin | 32.7 | 2.0 | ng/l | 50.0 | | 65 | 9-214 | | | |
| Pendimethalin | 48.0 | 2.0 | ng/l | 50.0 | | 96 | 41-158 | | | |
| Permethrin | 46.5 | 5.0 | ng/l | 50.0 | | 93 | 31-154 | | | |
| Prallethrin | 38.1 | 2.0 | ng/l | 50.0 | | 76 | 28-143 | | | |
| Sumithrin (Phenothrin) | 65.0 | 10 | ng/l | 50.0 | | 130 | 12-200 | | | |
| Tefluthrin | 38.5 | 2.0 | ng/l | 50.0 | | 77 | 48-161 | | | |
| Surr: Perylene-d12 | 224 | | ng/l | 250 | | 90 | 2-205 | | | |
| Surr: Triphenyl phosphate | 283 | | ng/l | 250 | | 113 | 6-222 | | | |

LCS Dup (W6A0864-BSD1)

Analyzed: 01/23/16 00:18

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---------------------------|--------|-----|-------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| Allethrin | 43.1 | 2.0 | ng/l | 50.0 | | 86 | 23-149 | 5 | 30 | |
| Bifenthrin | 53.3 | 2.0 | ng/l | 50.0 | | 107 | 26-153 | 2 | 30 | |
| Cyfluthrin | 45.7 | 2.0 | ng/l | 50.0 | | 91 | 3-168 | 7 | 30 | |
| Cypermethrin | 50.9 | 2.0 | ng/l | 50.0 | | 102 | 2-169 | 16 | 30 | |
| Deltamethrin/Tralomethrin | 30.4 | 2.0 | ng/l | 50.0 | | 61 | 0.1-252 | 8 | 30 | |
| Dichloran | 52.7 | 2.0 | ng/l | 50.0 | | 105 | 53-161 | 16 | 30 | |
| Fenpropathrin (Danitol) | 56.4 | 2.0 | ng/l | 50.0 | | 113 | 28-154 | 3 | 30 | |
| Fenvalerate/Esfenvalerate | 46.1 | 2.0 | ng/l | 50.0 | | 92 | 35-133 | 11 | 30 | |
| L-Cyhalothrin | 32.3 | 2.0 | ng/l | 50.0 | | 65 | 9-214 | 1 | 30 | |
| Pendimethalin | 45.3 | 2.0 | ng/l | 50.0 | | 91 | 41-158 | 6 | 30 | |
| Permethrin | 52.6 | 5.0 | ng/l | 50.0 | | 105 | 31-154 | 12 | 30 | |
| Prallethrin | 40.6 | 2.0 | ng/l | 50.0 | | 81 | 28-143 | 6 | 30 | |
| Sumithrin (Phenothrin) | 59.7 | 10 | ng/l | 50.0 | | 119 | 12-200 | 8 | 30 | |
| Tefluthrin | 39.7 | 2.0 | ng/l | 50.0 | | 79 | 48-161 | 3 | 30 | |
| Surr: Perylene-d12 | 232 | | ng/l | 250 | | 93 | 2-205 | | | |
| Surr: Triphenyl phosphate | 282 | | ng/l | 250 | | 113 | 6-222 | | | |

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W6A0444 - EPA 525.2

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------|--------|-----|-------|-------------|---------------|------|--------------|-----|-----------|-----------------|
| Analyzed: 01/12/16 17:43 | | | | | | | | | | |
| Blank (W6A0444-BLK1) | | | | | | | | | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W6A0444 - EPA 525.2

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| Blank (W6A0444-BLK1) | | | | Analyzed: 01/12/16 17:43 | | | | | | |
| Azinphos methyl (Guthion) | ND | 10 | ng/l | | | | | | | |
| Bolstar | ND | 10 | ng/l | | | | | | | |
| Chlorpyrifos | ND | 10 | ng/l | | | | | | | |
| Coumaphos | ND | 10 | ng/l | | | | | | | |
| Demeton-o | ND | 10 | ng/l | | | | | | | |
| Demeton-s | ND | 10 | ng/l | | | | | | | |
| Diazinon | ND | 10 | ng/l | | | | | | | |
| Dichlorvos | ND | 10 | ng/l | | | | | | | |
| Dimethoate | ND | 10 | ng/l | | | | | | | |
| Disulfoton | ND | 10 | ng/l | | | | | | | |
| Ethoprop | ND | 10 | ng/l | | | | | | | |
| Ethyl parathion | ND | 10 | ng/l | | | | | | | |
| Fensulfothion | ND | 10 | ng/l | | | | | | | |
| Fenthion | ND | 10 | ng/l | | | | | | | |
| Malathion | ND | 10 | ng/l | | | | | | | |
| Merphos | ND | 10 | ng/l | | | | | | | |
| Methyl parathion | ND | 10 | ng/l | | | | | | | |
| Mevinphos | ND | 10 | ng/l | | | | | | | |
| Naled | ND | 10 | ng/l | | | | | | | |
| Phorate | ND | 10 | ng/l | | | | | | | |
| Ronnel | ND | 10 | ng/l | | | | | | | |
| Stirophos | ND | 10 | ng/l | | | | | | | |
| Tokuthion (Prothiofos) | ND | 10 | ng/l | | | | | | | |
| Trichloronate | ND | 10 | ng/l | | | | | | | |
| <i>Surr: 1,3-Dimethyl-2-nitrobenzene</i> | 506 | | ng/l | 500 | | 101 | 76-128 | | | |
| <i>Surr: Triphenyl phosphate</i> | 535 | | ng/l | 500 | | 107 | 40-163 | | | |

LCS (W6A0444-BS1)

Analyzed: 01/12/16 18:08

| | | | | | | | | | | |
|---------------------------|------|----|------|------|--|-----|---------|--|--|--|
| Azinphos methyl (Guthion) | 42.1 | 10 | ng/l | 50.0 | | 84 | 0.1-188 | | | |
| Bolstar | 37.4 | 10 | ng/l | 50.0 | | 75 | 11-166 | | | |
| Chlorpyrifos | 47.9 | 10 | ng/l | 50.0 | | 96 | 37-169 | | | |
| Coumaphos | 43.8 | 10 | ng/l | 50.0 | | 88 | 0.1-225 | | | |
| Demeton-o | 34.3 | 10 | ng/l | 50.0 | | 69 | 0.1-211 | | | |
| Demeton-s | 47.6 | 10 | ng/l | 50.0 | | 95 | 0.1-213 | | | |
| Diazinon | 47.5 | 10 | ng/l | 50.0 | | 95 | 43-152 | | | |
| Dichlorvos | 35.4 | 10 | ng/l | 50.0 | | 71 | 46-133 | | | |
| Dimethoate | 51.0 | 10 | ng/l | 50.0 | | 102 | 10-234 | | | |
| Disulfoton | 50.2 | 10 | ng/l | 50.0 | | 100 | 0.1-212 | | | |
| Ethoprop | 50.8 | 10 | ng/l | 50.0 | | 102 | 53-163 | | | |
| Ethyl parathion | 45.9 | 10 | ng/l | 50.0 | | 92 | 7-230 | | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W6A0444 - EPA 525.2

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| LCS (W6A0444-BS1) | | | | Analyzed: 01/12/16 18:08 | | | | | | |
| Fensulfothion | 44.6 | 10 | ng/l | 50.0 | | 89 | 0.1-265 | | | |
| Fenthion | 65.9 | 10 | ng/l | 50.0 | | 132 | 20-177 | | | |
| Malathion | 56.0 | 10 | ng/l | 50.0 | | 112 | 14-175 | | | |
| Merphos | 36.6 | 10 | ng/l | 50.0 | | 73 | 28-181 | | | |
| Methyl parathion | 47.2 | 10 | ng/l | 50.0 | | 94 | 0.1-252 | | | |
| Mevinphos | 43.1 | 10 | ng/l | 50.0 | | 86 | 14-202 | | | |
| Naled | 8.90 | 10 | ng/l | 50.0 | | 18 | 0.1-240 | | | |
| Phorate | 49.8 | 10 | ng/l | 50.0 | | 100 | 26-180 | | | |
| Ronnel | 50.6 | 10 | ng/l | 50.0 | | 101 | 34-154 | | | |
| Stirophos | 55.6 | 10 | ng/l | 50.0 | | 111 | 0.1-188 | | | |
| Tokuthion (Prothiofos) | 38.6 | 10 | ng/l | 50.0 | | 77 | 23-159 | | | |
| Trichloronate | 48.1 | 10 | ng/l | 50.0 | | 96 | 34-153 | | | |
| <i>Surr: 1,3-Dimethyl-2-nitrobenzene</i> | 516 | | ng/l | 500 | | 103 | 76-128 | | | |
| <i>Surr: Triphenyl phosphate</i> | 520 | | ng/l | 500 | | 104 | 40-163 | | | |
| LCS Dup (W6A0444-BSD1) | | | | Analyzed: 01/12/16 18:34 | | | | | | |
| Azinphos methyl (Guthion) | 29.4 | 10 | ng/l | 50.0 | | 59 | 0.1-188 | 35 | 30 | Q-12 |
| Bolstar | 16.2 | 10 | ng/l | 50.0 | | 32 | 11-166 | 79 | 30 | Q-12 |
| Chlorpyrifos | 52.6 | 10 | ng/l | 50.0 | | 105 | 37-169 | 9 | 30 | |
| Coumaphos | 31.2 | 10 | ng/l | 50.0 | | 62 | 0.1-225 | 34 | 30 | Q-12 |
| Demeton-o | 27.2 | 10 | ng/l | 50.0 | | 54 | 0.1-211 | 23 | 30 | |
| Demeton-s | 38.1 | 10 | ng/l | 50.0 | | 76 | 0.1-213 | 22 | 30 | |
| Diazinon | 48.5 | 10 | ng/l | 50.0 | | 97 | 43-152 | 2 | 30 | |
| Dichlorvos | 32.7 | 10 | ng/l | 50.0 | | 65 | 46-133 | 8 | 30 | |
| Dimethoate | 57.3 | 10 | ng/l | 50.0 | | 115 | 10-234 | 12 | 30 | |
| Disulfoton | 33.6 | 10 | ng/l | 50.0 | | 67 | 0.1-212 | 39 | 30 | Q-12 |
| Ethoprop | 50.6 | 10 | ng/l | 50.0 | | 101 | 53-163 | 0.3 | 30 | |
| Ethyl parathion | 53.3 | 10 | ng/l | 50.0 | | 107 | 7-230 | 15 | 30 | |
| Fensulfothion | 26.4 | 10 | ng/l | 50.0 | | 53 | 0.1-265 | 51 | 30 | Q-12 |
| Fenthion | 56.7 | 10 | ng/l | 50.0 | | 113 | 20-177 | 15 | 30 | |
| Malathion | 66.9 | 10 | ng/l | 50.0 | | 134 | 14-175 | 18 | 30 | |
| Merphos | 21.4 | 10 | ng/l | 50.0 | | 43 | 28-181 | 52 | 30 | Q-12 |
| Methyl parathion | 53.1 | 10 | ng/l | 50.0 | | 106 | 0.1-252 | 12 | 30 | |
| Mevinphos | 36.5 | 10 | ng/l | 50.0 | | 73 | 14-202 | 17 | 30 | |
| Naled | 10.7 | 10 | ng/l | 50.0 | | 21 | 0.1-240 | 18 | 30 | |
| Phorate | 47.8 | 10 | ng/l | 50.0 | | 96 | 26-180 | 4 | 30 | |
| Ronnel | 55.7 | 10 | ng/l | 50.0 | | 111 | 34-154 | 10 | 30 | |
| Stirophos | 60.0 | 10 | ng/l | 50.0 | | 120 | 0.1-188 | 8 | 30 | |
| Tokuthion (Prothiofos) | 20.4 | 10 | ng/l | 50.0 | | 41 | 23-159 | 62 | 30 | Q-12 |
| Trichloronate | 52.1 | 10 | ng/l | 50.0 | | 104 | 34-153 | 8 | 30 | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W6A0444 - EPA 525.2

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|-----------------------------------|--------|-----|-------|--------------------------|---------------|------|--------------|-----|-----------|-----------------|
| LCS Dup (W6A0444-BSD1) | | | | Analyzed: 01/12/16 18:34 | | | | | | |
| Surr: 1,3-Dimethyl-2-nitrobenzene | 528 | | ng/l | 500 | | 106 | 76-128 | | | |
| Surr: Triphenyl phosphate | 420 | | ng/l | 500 | | 84 | 40-163 | | | |



Pacific Ridgeline Inc.
230 Dove Ct.
Santa Paula CA, 93060

Date Received: 01/05/16 12:11
Date Reported: 01/28/16 11:04

Notes and Definitions

- S-GC** Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
- R-03** The RPD is not applicable for result below the reporting limit (either ND or J value).
- Q-12** The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
- M-06** Due to the high concentration of analyte inherent in the sample, sample was diluted prior to preparation. The MDL and MRL were raised due to this dilution.
- M-04** Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
- **** The recommended holding time for field filtering is only 15 minutes. The sample was filtered as soon as possible but it was filtered past holding time. However, the sample was analyzed within holding time.
- ND** NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
- NR** Not Reportable
- Dil** Dilution
- dry** Sample results reported on a dry weight basis
- RPD** Relative Percent Difference
- % Rec** Percent Recovery
- Sub** Subcontracted analysis, original report available upon request
- MDL** Method Detection Limit
- MDA** Minimum Detectable Activity
- MRL** Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



230 Dove Court, Santa Paula, CA 93060
 office 805.933.1770 | fax 805.933.1799
 www.pacrl.com | Contractor Lic. No. 601667

CHAIN OF CUSTODY RECORD

ABC Lab. ANALYSIS REQUESTED

PROJECT NAME: Los Angeles Irrigated Lands Gap
 PROJECT ADDRESS: Nursery Growers Association
 PROJECT MANAGER: Bryn Howe
 SAMPLER NAME (PRINT): Scott Jordan PO#

NUMBER OF CONTAINERS

Ceriodaphnia Dubia
 7 Day
 Fathead Minnow
 7 Day
 Selenastrum 96hr.

- EDF
- STD TAT
- 24 HR RUSH
- 48-HR RUSH
- 72-HR RUSH

| SAMPLE ID | SAMPLE LOCATION | DEPTH | DATE | TIME | SAMPLE MATRIX | NUMBER OF CONTAINERS | | | ANALYSIS REQUESTED | | | | | | | NOTES | |
|-----------|-----------------|-------|--------|------|------------------|----------------------|---|---|--------------------|--|--|--|--|--|--|-------|-------------|
| X | LALIG-NGA-168-8 | N/A | 1/5/16 | 9:20 | H ₂ O | 2 | X | X | X | | | | | | | | S.W. Runoff |
| | LALIG-NGA-644 | N/A | ↓ | 8:50 | H ₂ O | 2 | ↓ | ↓ | ↓ | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

Temp. deg. C = 16.8-8 = 64.4
 = 12.5°C = 12.0°C
 Chlorine (mg/L) = 20.1 = 20.1
 NH₃ (mg/L) = 0.6 = 2.0

RELINQUISHED BY: (signature) RECEIVED BY: (signature) DATE: 1-6-16 TIME: 1312
 RELINQUISHED BY: (signature) RECEIVED BY: (signature) DATE: TIME:



January 27, 2016

Mr. Bryn Home
Pacific Ridgeline, Inc.
230 Dove Court
Santa Paula, CA 93060

Dear Mr. Home:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*. "All acceptability criteria were met and the concentration-response was normal. This is a valid test." Results were as follows:

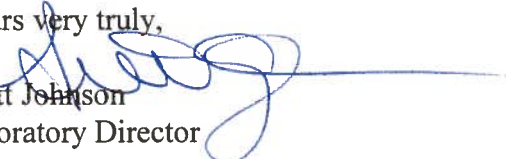
CLIENT: Pacific Ridgeline, Inc.
SAMPLE I.D.: LAILG-NGA168-8
DATE RECEIVED: 6 Jan -16
ABC LAB. NO.: PRI0116.042

CHRONIC FATHEAD LARVAE SURVIVAL & GROWTH BIOASSAY

SURVIVAL NOEC = 100.00 %
 TUc = 1.00
 EC25 = >100.00 %
 EC50 = >100.00 %

GROWTH NOEC = 100.00 %
 TUc = 1.00
 IC25 = >100.00 %
 IC50 = >100.00 %

Yours very truly,


Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 22 Jan-16 10:04 (p 1 of 2)
 Test Code: PRI0116.042fml | 06-7249-7679

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | |
|--------------------------------------|--|---|
| Batch ID: 14-5601-6684 | Test Type: Growth-Survival (7d) | Analyst: |
| Start Date: 06 Jan-16 14:20 | Protocol: EPA/821/R-02-013 (2002) | Diluent: Laboratory Water |
| Ending Date: 13 Jan-16 14:40 | Species: Pimephales promelas | Brine: Not Applicable |
| Duration: 7d 0h | Source: Aquatic Biosystems, CO | Age: |
| Sample ID: 01-3300-1777 | Code: PRI0116.042fml | Client: Pacific Ridgeline, Inc. |
| Sample Date: 05 Jan-16 09:20 | Material: Sample Water | Project: Nursery Growers Association |
| Receive Date: 06 Jan-16 13:12 | Source: Bioassay Report | |
| Sample Age: 29h (12.5 °C) | Station: LAILG-NGA-168-8 | |

Comparison Summary

| Analysis ID | Endpoint | NOEL | LOEL | TOEL | PMSD | TU | Method |
|--------------|---------------------|------|------|------|-------|----|----------------------------------|
| 18-6090-7109 | 7d Survival Rate | 100 | >100 | NA | 4.08% | 1 | Equal Variance t Two-Sample Test |
| 12-6624-7529 | Mean Dry Biomass-mg | 100 | >100 | NA | 9.49% | 1 | Equal Variance t Two-Sample Test |

Point Estimate Summary

| Analysis ID | Endpoint | Level | % | 95% LCL | 95% UCL | TU | Method |
|--------------|---------------------|-------|------|---------|---------|----|------------------------------|
| 00-9915-8764 | 7d Survival Rate | EC5 | >100 | N/A | N/A | <1 | Linear Interpolation (ICPIN) |
| | | EC10 | >100 | N/A | N/A | <1 | |
| | | EC15 | >100 | N/A | N/A | <1 | |
| | | EC20 | >100 | N/A | N/A | <1 | |
| | | EC25 | >100 | N/A | N/A | <1 | |
| | | EC40 | >100 | N/A | N/A | <1 | |
| 16-7664-5074 | Mean Dry Biomass-mg | IC5 | >100 | N/A | N/A | <1 | Linear Interpolation (ICPIN) |
| | | IC10 | >100 | N/A | N/A | <1 | |
| | | IC15 | >100 | N/A | N/A | <1 | |
| | | IC20 | >100 | N/A | N/A | <1 | |
| | | IC25 | >100 | N/A | N/A | <1 | |
| | | IC40 | >100 | N/A | N/A | <1 | |

Test Acceptability

| Analysis ID | Endpoint | Attribute | Test Stat | TAC Limits | Overlap | Decision |
|--------------|---------------------|--------------|-----------|------------|---------|-------------------------------|
| 00-9915-8764 | 7d Survival Rate | Control Resp | 1 | 0.8 - NL | Yes | Passes Acceptability Criteria |
| 18-6090-7109 | 7d Survival Rate | Control Resp | 1 | 0.8 - NL | Yes | Passes Acceptability Criteria |
| 12-6624-7529 | Mean Dry Biomass-mg | Control Resp | 0.3037 | 0.25 - NL | Yes | Passes Acceptability Criteria |
| 16-7664-5074 | Mean Dry Biomass-mg | Control Resp | 0.3037 | 0.25 - NL | Yes | Passes Acceptability Criteria |
| 12-6624-7529 | Mean Dry Biomass-mg | PMSD | 0.09491 | 0.12 - 0.3 | Yes | Below Acceptability Criteria |

7d Survival Rate Summary

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | %Effect |
|-----|------------------|-------|--------|---------|---------|--------|-----|---------|---------|-------|---------|
| 0 | Negative Control | 4 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0.0% | 0.0% |
| 100 | | 4 | 0.9667 | 0.9054 | 1 | 0.9333 | 1 | 0.01925 | 0.03849 | 3.98% | 3.33% |

Mean Dry Biomass-mg Summary

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | %Effect |
|-----|------------------|-------|--------|---------|---------|--------|--------|----------|---------|-------|---------|
| 0 | Negative Control | 4 | 0.3037 | 0.2747 | 0.3326 | 0.2853 | 0.3287 | 0.009102 | 0.0182 | 6.0% | 0.0% |
| 100 | | 4 | 0.3293 | 0.2921 | 0.3666 | 0.3067 | 0.3567 | 0.01171 | 0.02342 | 7.11% | -8.45% |

7d Survival Rate Detail

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|-----|------------------|--------|--------|-------|-------|
| 0 | Negative Control | 1 | 1 | 1 | 1 |
| 100 | | 0.9333 | 0.9333 | 1 | 1 |

Mean Dry Biomass-mg Detail

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|-----|------------------|--------|--------|--------|--------|
| 0 | Negative Control | 0.2853 | 0.298 | 0.3027 | 0.3287 |
| 100 | | 0.3067 | 0.3567 | 0.3407 | 0.3133 |

CETIS Summary Report

Report Date: 22 Jan-16 10:04 (p 2 of 2)

Test Code: PRI0116.042fml | 06-7249-7679

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Binomials

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|-----|------------------|-------|-------|-------|-------|
| 0 | Negative Control | 15/15 | 15/15 | 15/15 | 15/15 |
| 100 | | 14/15 | 14/15 | 15/15 | 15/15 |

CETIS Analytical Report

Report Date: 22 Jan-16 10:04 (p 1 of 3)
 Test Code: PRI0116.042fml | 06-7249-7679

| Fathead Minnow 7-d Larval Survival and Growth Test | | | | | | | Aquatic Bioassay & Consulting Labs, Inc. | | | | |
|--|-------------------------------|---------------------------------|-------------|----------|----------------------------|-------------------------|--|--------|------------------------|-------|---------|
| Analysis ID: 18-6090-7109 | | Endpoint: 7d Survival Rate | | | CETIS Version: CETISv1.8.7 | | | | | | |
| Analyzed: 22 Jan-16 10:03 | | Analysis: Parametric-Two Sample | | | Official Results: Yes | | | | | | |
| Data Transform | Zeta | Alt Hyp | Trials | Seed | PMSD | Test Result | | | | | |
| Angular (Corrected) | NA | C > T | NA | NA | 4.08% | Passes 7d survival rate | | | | | |
| Equal Variance t Two-Sample Test | | | | | | | | | | | |
| Control | vs | C-% | Test Stat | Critical | MSD | DF | P-Value | P-Type | Decision(α:5%) | | |
| Negative Control | | 100 | 1.732 | 1.943 | 0.074 | 6 | 0.0670 | CDF | Non-Significant Effect | | |
| ANOVA Table | | | | | | | | | | | |
| Source | Sum Squares | | Mean Square | DF | F Stat | P-Value | Decision(α:5%) | | | | |
| Between | 0.008672003 | | 0.008672003 | 1 | 3 | 0.1340 | Non-Significant Effect | | | | |
| Error | 0.01734401 | | 0.002890667 | 6 | | | | | | | |
| Total | 0.02601601 | | | 7 | | | | | | | |
| Distributional Tests | | | | | | | | | | | |
| Attribute | Test | | Test Stat | Critical | P-Value | Decision(α:1%) | | | | | |
| Distribution | Shapiro-Wilk W Normality | | 0.8489 | 0.6451 | 0.0929 | Normal Distribution | | | | | |
| Distribution | Kolmogorov-Smirnov D | | 0.25 | 0.3313 | 0.1599 | Normal Distribution | | | | | |
| Distribution | Anderson-Darling A2 Normality | | 0.6699 | 3.878 | 0.0804 | Normal Distribution | | | | | |
| 7d Survival Rate Summary | | | | | | | | | | | |
| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Median | Min | Max | Std Err | CV% | %Effect |
| 0 | Negative Control | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0.0% | 0.0% |
| 100 | | 4 | 0.9667 | 0.9054 | 1 | 0.9667 | 0.9333 | 1 | 0.01924 | 3.98% | 3.33% |
| Angular (Corrected) Transformed Summary | | | | | | | | | | | |
| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Median | Min | Max | Std Err | CV% | %Effect |
| 0 | Negative Contr | 4 | 1.441 | 1.441 | 1.442 | 1.441 | 1.441 | 1.441 | 0 | 0.0% | 0.0% |
| 100 | | 4 | 1.375 | 1.254 | 1.496 | 1.375 | 1.31 | 1.441 | 0.03802 | 5.53% | 4.57% |
| 7d Survival Rate Detail | | | | | | | | | | | |
| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | | | | | | |
| 0 | Negative Control | 1 | 1 | 1 | 1 | | | | | | |
| 100 | | 0.9333 | 0.9333 | 1 | 1 | | | | | | |
| Angular (Corrected) Transformed Detail | | | | | | | | | | | |
| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | | | | | | |
| 0 | Negative Control | 1.441 | 1.441 | 1.441 | 1.441 | | | | | | |
| 100 | | 1.31 | 1.31 | 1.441 | 1.441 | | | | | | |
| 7d Survival Rate Binomials | | | | | | | | | | | |
| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | | | | | | |
| 0 | Negative Control | 15/15 | 15/15 | 15/15 | 15/15 | | | | | | |
| 100 | | 14/15 | 14/15 | 15/15 | 15/15 | | | | | | |

CETIS Analytical Report

Report Date: 22 Jan-16 10:04 (p 2 of 3)

Test Code: PRI0116.042fml | 06-7249-7679

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 18-6090-7109

Endpoint: 7d Survival Rate

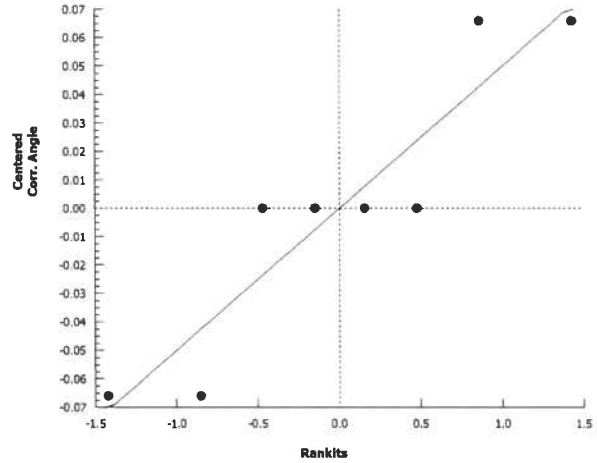
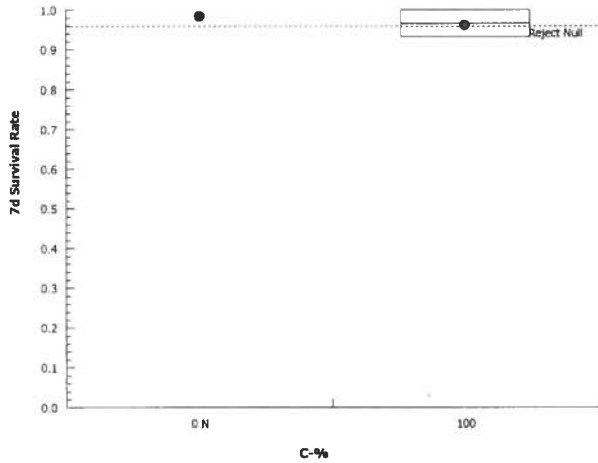
CETIS Version: CETISv1.8.7

Analyzed: 22 Jan-16 10:03

Analysis: Parametric-Two Sample

Official Results: Yes

Graphics



CETIS Measurement Report

Report Date: 22 Jan-16 10:04 (p 1 of 2)
 Test Code: PRI0116.042fml | 06-7249-7679

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | |
|--------------------------------------|--|---|
| Batch ID: 14-5601-6684 | Test Type: Growth-Survival (7d) | Analyst: |
| Start Date: 06 Jan-16 14:20 | Protocol: EPA/821/R-02-013 (2002) | Diluent: Laboratory Water |
| Ending Date: 13 Jan-16 14:40 | Species: Pimephales promelas | Brine: Not Applicable |
| Duration: 7d 0h | Source: Aquatic Biosystems, CO | Age: |
| Sample ID: 01-3300-1777 | Code: PRI0116.042fml | Client: Pacific Ridgeline, Inc. |
| Sample Date: 05 Jan-16 09:20 | Material: Sample Water | Project: Nursery Growers Association |
| Receive Date: 06 Jan-16 13:12 | Source: Bioassay Report | |
| Sample Age: 29h (12.5 °C) | Station: LAILG-NGA-168-8 | |

Alkalinity (CaCO3)-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 64.13 | 61.25 | 67 | 60 | 68 | 1.217 | 3.441 | 5.37% | 0 |
| 100 | | 8 | 64 | 64 | 64 | 64 | 64 | 0 | 0 | 0.0% | 0 |
| Overall | | 16 | 64.06 | | | 60 | 68 | | | | 0 (0%) |

Conductivity-µmhos

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 328.4 | 326 | 330.8 | 323 | 332 | 1.017 | 2.875 | 0.88% | 0 |
| 100 | | 8 | 590.3 | 584.9 | 595.6 | 580 | 597 | 2.266 | 6.409 | 1.09% | 0 |
| Overall | | 16 | 459.3 | | | 323 | 597 | | | | 0 (0%) |

Dissolved Oxygen-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 8.1 | 7.686 | 8.514 | 7.7 | 9.2 | 0.1753 | 0.4957 | 6.12% | 0 |
| 100 | | 8 | 7.75 | 7.181 | 8.319 | 6.3 | 8.7 | 0.2405 | 0.6803 | 8.78% | 0 |
| Overall | | 16 | 7.925 | | | 6.3 | 9.2 | | | | 0 (0%) |

Hardness (CaCO3)-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 92.13 | 88.68 | 95.57 | 88 | 97 | 1.457 | 4.121 | 4.47% | 0 |
| 100 | | 8 | 184 | 184 | 184 | 184 | 184 | 0 | 0 | 0.0% | 0 |
| Overall | | 16 | 138.1 | | | 88 | 184 | | | | 0 (0%) |

pH-Units

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 8.025 | 7.803 | 8.247 | 7.6 | 8.3 | 0.09402 | 0.2659 | 3.31% | 0 |
| 100 | | 8 | 7.513 | 7.243 | 7.782 | 7.1 | 7.9 | 0.1141 | 0.3227 | 4.3% | 0 |
| Overall | | 16 | 7.769 | | | 7.1 | 8.3 | | | | 0 (0%) |

Temperature-°C

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|------|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 24.06 | 23.91 | 24.21 | 24 | 24.5 | 0.0625 | 0.1768 | 0.73% | 0 |
| 100 | | 8 | 24.19 | 24.02 | 24.35 | 24 | 24.5 | 0.06927 | 0.1959 | 0.81% | 0 |
| Overall | | 16 | 24.13 | | | 24 | 24.5 | | | | 0 (0%) |



January 27, 2016

Mr. Bryn Home
Pacific Ridgeline, Inc.
230 Dove Court
Santa Paula, CA 93060

Dear Mr. Home:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*. "All acceptability criteria were met and the concentration-response was normal. This is a valid test." Results were as follows:


| | |
|----------------|-------------------------|
| CLIENT: | Pacific Ridgeline, Inc. |
| SAMPLE I.D.: | LAILG-NGA-168-8 |
| DATE RECEIVED: | 6 Jan -16 |
| ABC LAB. NO.: | PRI0116.042 |

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

| | | |
|----------|-------------------|-----------|
| SURVIVAL | NOEC = | 100.00 % |
| | TU _c = | 1.00 |
| | EC25 = | >100.00 % |
| | EC50 = | >100.00 % |

| | | |
|--------------|-------------------|-----------|
| REPRODUCTION | NOEC = | 100.00 % |
| | TU _c = | 1.00 |
| | IC25 = | >100.00 % |
| | IC50 = | >100.00 % |

Yours very truly,


Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 22 Jan-16 09:57 (p 1 of 2)
 Test Code: PRI0116.042cer | 06-5815-3480

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | |
|--------------------------------------|--|---|
| Batch ID: 02-5393-4392 | Test Type: Reproduction-Survival (7d) | Analyst: |
| Start Date: 06 Jan-16 14:20 | Protocol: EPA/821/R-02-013 (2002) | Diluent: Laboratory Water |
| Ending Date: 13 Jan-16 14:40 | Species: Ceriodaphnia dubia | Brine: Not Applicable |
| Duration: 7d 0h | Source: Aquatic Biosystems, CO | Age: |
| Sample ID: 08-2172-7457 | Code: PRI0116.042cer | Client: Pacific Ridgeline, Inc. |
| Sample Date: 05 Jan-16 09:20 | Material: Sample Water | Project: Nursery Growers Association |
| Receive Date: 06 Jan-16 13:12 | Source: Bioassay Report | |
| Sample Age: 29h (12.5 °C) | Station: LAILG-NGA-168-8 | |

Comparison Summary

| Analysis ID | Endpoint | NOEL | LOEL | TOEL | PMSD | TU | Method |
|--------------|------------------|------|------|------|-------|----|--------------------|
| 06-0097-3081 | 7d Survival Rate | 100 | >100 | NA | NA | 1 | Fisher Exact Test |
| 04-5707-3070 | Reproduction | 100 | >100 | NA | 24.9% | 1 | TST-Welch's t Test |

Point Estimate Summary

| Analysis ID | Endpoint | Level | % | 95% LCL | 95% UCL | TU | Method |
|--------------|------------------|-------|------|---------|---------|----|------------------------------|
| 09-9583-7677 | 7d Survival Rate | EC5 | >100 | N/A | N/A | <1 | Linear Interpolation (ICPIN) |
| | | EC10 | >100 | N/A | N/A | <1 | |
| | | EC15 | >100 | N/A | N/A | <1 | |
| | | EC20 | >100 | N/A | N/A | <1 | |
| | | EC25 | >100 | N/A | N/A | <1 | |
| | | EC40 | >100 | N/A | N/A | <1 | |
| 20-3354-6189 | Reproduction | IC5 | >100 | N/A | N/A | <1 | Linear Interpolation (ICPIN) |
| | | IC10 | >100 | N/A | N/A | <1 | |
| | | IC15 | >100 | N/A | N/A | <1 | |
| | | IC20 | >100 | N/A | N/A | <1 | |
| | | IC25 | >100 | N/A | N/A | <1 | |
| | | IC40 | >100 | N/A | N/A | <1 | |

Test Acceptability

| Analysis ID | Endpoint | Attribute | Test Stat | TAC Limits | Overlap | Decision |
|--------------|------------------|--------------|-----------|-------------|---------|-------------------------------|
| 06-0097-3081 | 7d Survival Rate | Control Resp | 1 | 0.8 - NL | Yes | Passes Acceptability Criteria |
| 09-9583-7677 | 7d Survival Rate | Control Resp | 1 | 0.8 - NL | Yes | Passes Acceptability Criteria |
| 04-5707-3070 | Reproduction | Control Resp | 16.8 | 15 - NL | Yes | Passes Acceptability Criteria |
| 20-3354-6189 | Reproduction | Control Resp | 16.8 | 15 - NL | Yes | Passes Acceptability Criteria |
| 04-5707-3070 | Reproduction | PMSD | 0.2485 | 0.13 - 0.47 | Yes | Passes Acceptability Criteria |

7d Survival Rate Summary

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | %Effect |
|-----|------------------|-------|------|---------|---------|-----|-----|---------|---------|------|---------|
| 0 | Negative Control | 10 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0.0% | 0.0% |
| 100 | | 10 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0.0% | 0.0% |

Reproduction Summary

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | %Effect |
|-----|------------------|-------|------|---------|---------|-----|-----|---------|---------|--------|---------|
| 0 | Negative Control | 10 | 16.8 | 10.27 | 23.33 | 7 | 35 | 2.886 | 9.126 | 54.32% | 0.0% |
| 100 | | 10 | 30.4 | 20.71 | 40.09 | 8 | 54 | 4.282 | 13.54 | 44.55% | -80.95% |

7d Survival Rate Detail

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | Rep 6 | Rep 7 | Rep 8 | Rep 9 | Rep 10 |
|-----|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0 | Negative Control | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 100 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Reproduction Detail

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | Rep 6 | Rep 7 | Rep 8 | Rep 9 | Rep 10 |
|-----|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0 | Negative Control | 11 | 7 | 26 | 35 | 7 | 13 | 15 | 19 | 11 | 24 |
| 100 | | 28 | 24 | 54 | 51 | 24 | 31 | 34 | 23 | 27 | 8 |

CETIS Summary Report

Report Date: 22 Jan-16 09:57 (p 2 of 2)
Test Code: PRI0116.042cer | 06-5815-3480

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Binomials

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | Rep 6 | Rep 7 | Rep 8 | Rep 9 | Rep 10 |
|-----|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0 | Negative Control | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| 100 | | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |

CETIS Analytical Report

Report Date: 22 Jan-16 09:57 (p 1 of 1)
 Test Code: PRI0116.042cer | 06-5815-3480

| | | | | | |
|--|--|----------------------------|---|--|--|
| Ceriodaphnia 7-d Survival and Reproduction Test | | | Aquatic Bioassay & Consulting Labs, Inc. | | |
| Analysis ID: 06-0097-3081 | Endpoint: 7d Survival Rate | CETIS Version: CETISv1.8.7 | | | |
| Analyzed: 20 Jan-16 15:25 | Analysis: Single 2x2 Contingency Table | Official Results: Yes | | | |

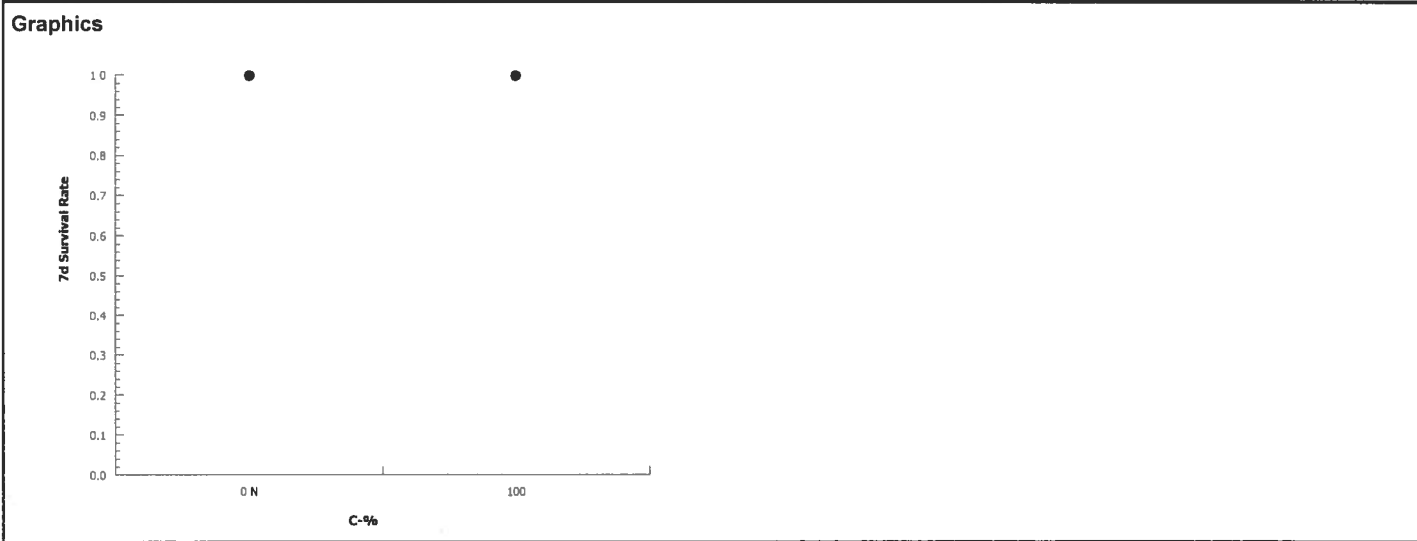
| | | | | | |
|-----------------------|-------------|----------------|---------------|-------------|-------------------------|
| Data Transform | Zeta | Alt Hyp | Trials | Seed | Test Result |
| Untransformed | | C > T | NA | NA | Passes 7d survival rate |

| | | | | | | |
|--------------------------|-----------|------------|------------------|----------------|---------------|------------------------|
| Fisher Exact Test | | | | | | |
| Control | vs | C-% | Test Stat | P-Value | P-Type | Decision(α:5%) |
| Negative Control | | 100 | 1 | 1.0000 | Exact | Non-Significant Effect |

| | | | | | | | |
|---------------------|---------------------|-----------|----------|---------------|----------------|---------------|----------------|
| Data Summary | | | | | | | |
| C-% | Control Type | NR | R | NR + R | Prop NR | Prop R | %Effect |
| 0 | Negative Contr | 10 | 0 | 10 | 1 | 0 | 0.0% |
| 100 | | 10 | 0 | 10 | 1 | 0 | 0.0% |

| | | | | | | | | | | | |
|--------------------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 7d Survival Rate Detail | | | | | | | | | | | |
| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | Rep 6 | Rep 7 | Rep 8 | Rep 9 | Rep 10 |
| 0 | Negative Control | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 100 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | |
|-----------------------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 7d Survival Rate Binomials | | | | | | | | | | | |
| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | Rep 6 | Rep 7 | Rep 8 | Rep 9 | Rep 10 |
| 0 | Negative Control | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| 100 | | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |



CETIS Measurement Report

Report Date: 22 Jan-16 09:57 (p 1 of 2)
 Test Code: PRI0116.042cer | 06-5815-3480

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | |
|-------------------------------|---------------------------------------|--------------------------------------|
| Batch ID: 02-5393-4392 | Test Type: Reproduction-Survival (7d) | Analyst: |
| Start Date: 06 Jan-16 14:20 | Protocol: EPA/821/R-02-013 (2002) | Diluent: Laboratory Water |
| Ending Date: 13 Jan-16 14:40 | Species: Ceriodaphnia dubia | Brine: Not Applicable |
| Duration: 7d 0h | Source: Aquatic Biosystems, CO | Age: |
| Sample ID: 08-2172-7457 | Code: PRI0116.042cer | Client: Pacific Ridgeline, Inc. |
| Sample Date: 05 Jan-16 09:20 | Material: Sample Water | Project: Nursery Growers Association |
| Receive Date: 06 Jan-16 13:12 | Source: Bioassay Report | |
| Sample Age: 29h (12.5 °C) | Station: LAILG-NGA-168-8 | |

Alkalinity (CaCO3)-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 64.13 | 61.25 | 67 | 60 | 68 | 1.217 | 3.441 | 5.37% | 0 |
| 100 | | 8 | 64 | 64 | 64 | 64 | 64 | 0 | 0 | 0.0% | 0 |
| Overall | | 16 | 64.06 | | | 60 | 68 | | | | 0 (0%) |

Conductivity-µmhos

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 328.4 | 326 | 330.8 | 323 | 332 | 1.017 | 2.875 | 0.88% | 0 |
| 100 | | 8 | 590.3 | 584.9 | 595.6 | 580 | 597 | 2.266 | 6.409 | 1.09% | 0 |
| Overall | | 16 | 459.3 | | | 323 | 597 | | | | 0 (0%) |

Dissolved Oxygen-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 8.1 | 7.686 | 8.514 | 7.7 | 9.2 | 0.1753 | 0.4957 | 6.12% | 0 |
| 100 | | 8 | 7.75 | 7.181 | 8.319 | 6.3 | 8.7 | 0.2405 | 0.6803 | 8.78% | 0 |
| Overall | | 16 | 7.925 | | | 6.3 | 9.2 | | | | 0 (0%) |

Hardness (CaCO3)-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 92.13 | 88.68 | 95.57 | 88 | 97 | 1.457 | 4.121 | 4.47% | 0 |
| 100 | | 8 | 184 | 184 | 184 | 184 | 184 | 0 | 0 | 0.0% | 0 |
| Overall | | 16 | 138.1 | | | 88 | 184 | | | | 0 (0%) |

pH-Units

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 8.025 | 7.803 | 8.247 | 7.6 | 8.3 | 0.09402 | 0.2659 | 3.31% | 0 |
| 100 | | 8 | 7.513 | 7.243 | 7.782 | 7.1 | 7.9 | 0.1141 | 0.3227 | 4.3% | 0 |
| Overall | | 16 | 7.769 | | | 7.1 | 8.3 | | | | 0 (0%) |

Temperature-°C

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|------|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 24.06 | 23.91 | 24.21 | 24 | 24.5 | 0.0625 | 0.1768 | 0.73% | 0 |
| 100 | | 8 | 24.19 | 24.02 | 24.35 | 24 | 24.5 | 0.06927 | 0.1959 | 0.81% | 0 |
| Overall | | 16 | 24.13 | | | 24 | 24.5 | | | | 0 (0%) |

CETIS Measurement Report

Report Date: 22 Jan-16 09:57 (p 2 of 2)
 Test Code: PRI0116.042cer | 06-5815-3480

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO₃)-mg/L

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|----|----|----|----|----|----|----|----|
| 0 | Negative Contr | 68 | 68 | 68 | 63 | 63 | 63 | 60 | 60 |
| 100 | | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |

Conductivity-µmhos

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 328 | 332 | 323 | 328 | 330 | 326 | 329 | 331 |
| 100 | | 580 | 596 | 595 | 595 | 597 | 584 | 586 | 589 |

Dissolved Oxygen-mg/L

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 7.8 | 8.4 | 7.7 | 7.8 | 7.9 | 7.9 | 8.1 | 9.2 |
| 100 | | 8.7 | 8.2 | 7.7 | 7.7 | 7.7 | 7.9 | 7.8 | 6.3 |

Hardness (CaCO₃)-mg/L

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 97 | 97 | 97 | 90 | 90 | 90 | 88 | 88 |
| 100 | | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 |

pH-Units

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 8.1 | 7.9 | 7.7 | 8.3 | 8.1 | 8.2 | 7.6 | 8.3 |
| 100 | | 7.1 | 7.8 | 7.9 | 7.8 | 7.7 | 7.2 | 7.2 | 7.4 |

Temperature-°C

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|------|----|----|------|------|------|------|----|
| 0 | Negative Contr | 24 | 24 | 24 | 24 | 24 | 24 | 24.5 | 24 |
| 100 | | 24.3 | 24 | 24 | 24.4 | 24.1 | 24.5 | 24.2 | 24 |



January 27, 2016

Mr. Bryn Home
Pacific Ridgeline, Inc.
230 Dove Court
Santa Paula, CA 93060

Dear Mr. Home:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*. "All acceptability criteria were met and the concentration-response was normal. This is a valid test." Results were as follows:

| | |
|----------------|-------------------------|
| CLIENT: | Pacific Ridgeline, Inc. |
| SAMPLE I.D.: | LAILG-NGA-168-8 |
| DATE RECEIVED: | 6 Jan -16 |
| ABC LAB. NO.: | PRI0116.042 |

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = <100.00 %

TU_c = >1.00

IC₂₅ = 37.67 %

IC₅₀ = 75.35 %

Yours very truly,


Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 13 Jan-16 12:05 (p 1 of 1)
 Test Code: PRI0116.042sel | 08-4293-8035

Selenastrum Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | |
|--------------------------------------|---|---|
| Batch ID: 02-9230-5208 | Test Type: Cell Growth | Analyst: |
| Start Date: 06 Jan-16 15:59 | Protocol: EPA/821/R-02-013 (2002) | Diluent: Laboratory Water |
| Ending Date: 10 Jan-16 14:15 | Species: Selenastrum capricornutum | Brine: Not Applicable |
| Duration: 94h | Source: Aquatic Biosystems, CO | Age: |
| Sample ID: 11-8543-9828 | Code: PRI0116.042sel | Client: Pacific Ridgeline, Inc. |
| Sample Date: 05 Jan-16 09:20 | Material: Sample Water | Project: Nursery Growers Association |
| Receive Date: 06 Jan-16 13:12 | Source: Bioassay Report | |
| Sample Age: 31h (12.5 °C) | Station: LAILG-NGA-168-8 | |

Comparison Summary

| Analysis ID | Endpoint | NOEL | LOEL | TOEL | PMSD | TU | Method |
|--------------|--------------|------|------|------|------|----|----------------------------------|
| 19-6162-9851 | Cell Density | <100 | 100 | NA | 2.4% | >1 | Equal Variance t Two-Sample Test |

Point Estimate Summary

| Analysis ID | Endpoint | Level | % | 95% LCL | 95% UCL | TU | Method |
|--------------|--------------|-------|-------|---------|---------|-------|------------------------------|
| 16-0201-1605 | Cell Density | IC5 | 7.535 | 7.287 | 7.909 | 13.27 | Linear Interpolation (ICPIN) |
| | | IC10 | 15.07 | 14.57 | 15.82 | 6.636 | |
| | | IC15 | 22.6 | 21.86 | 23.73 | 4.424 | |
| | | IC20 | 30.14 | 29.15 | 31.64 | 3.318 | |
| | | IC25 | 37.67 | 36.44 | 39.55 | 2.654 | |
| | | IC40 | 60.28 | 58.3 | 63.27 | 1.659 | |
| | | IC50 | 75.35 | 72.87 | 79.09 | 1.327 | |

Test Acceptability

| Analysis ID | Endpoint | Attribute | Test Stat | TAC Limits | Overlap | Decision |
|--------------|--------------|--------------|-----------|--------------|---------|-------------------------------|
| 16-0201-1605 | Cell Density | Control CV | 0.01571 | NL - 0.2 | Yes | Passes Acceptability Criteria |
| 19-6162-9851 | Cell Density | Control CV | 0.01571 | NL - 0.2 | Yes | Passes Acceptability Criteria |
| 16-0201-1605 | Cell Density | Control Resp | 1.53E+6 | 1.00E+6 - NL | Yes | Passes Acceptability Criteria |
| 19-6162-9851 | Cell Density | Control Resp | 1.53E+6 | 1.00E+6 - NL | Yes | Passes Acceptability Criteria |
| 19-6162-9851 | Cell Density | PMSD | 0.02404 | 0.091 - 0.29 | Yes | Below Acceptability Criteria |

Cell Density Summary

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | %Effect |
|-----|------------------|-------|----------|----------|----------|----------|----------|----------|----------|-------|---------|
| 0 | Negative Control | 4 | 1.527E+6 | 1.489E+6 | 1.565E+6 | 1.496E+6 | 1.554E+6 | 1.200E+4 | 2.399E+4 | 1.57% | 0.0% |
| 100 | | 4 | 5.138E+5 | 4.673E+5 | 5.602E+5 | 4.930E+5 | 5.570E+5 | 1.460E+4 | 2.920E+4 | 5.69% | 66.36% |

Cell Density Detail

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|-----|------------------|----------|----------|----------|----------|
| 0 | Negative Control | 1.496E+6 | 1.526E+6 | 1.533E+6 | 1.554E+6 |
| 100 | | 5.570E+5 | 5.010E+5 | 4.930E+5 | 5.040E+5 |

CETIS Measurement Report

Report Date: 13 Jan-16 12:05 (p 1 of 2)

Test Code: PRI0116.042sel | 08-4293-8035

Selenastrum Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | | | | |
|---------------|-----------------|------------|---------------------------|----------|-----------------------------|
| Batch ID: | 02-9230-5208 | Test Type: | Cell Growth | Analyst: | |
| Start Date: | 06 Jan-16 15:59 | Protocol: | EPA/821/R-02-013 (2002) | Diluent: | Laboratory Water |
| Ending Date: | 10 Jan-16 14:15 | Species: | Selenastrum capricornutum | Brine: | Not Applicable |
| Duration: | 94h | Source: | Aquatic Biosystems, CO | Age: | |
| Sample ID: | 11-8543-9828 | Code: | PRI0116.042sel | Client: | Pacific Ridgeline, Inc. |
| Sample Date: | 05 Jan-16 09:20 | Material: | Sample Water | Project: | Nursery Growers Association |
| Receive Date: | 06 Jan-16 13:12 | Source: | Bioassay Report | | |
| Sample Age: | 31h (12.5 °C) | Station: | LAILG-NGA-168-8 | | |

Alkalinity (CaCO3)-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|------|---------|---------|-----|-----|---------|---------|------|----------|
| 0 | Negative Contr | 1 | 70 | | | 70 | 70 | 0 | 0 | 0.0% | 0 |
| 100 | | 1 | 64 | | | 64 | 64 | 0 | 0 | 0.0% | 0 |
| Overall | | 2 | 67 | | | 64 | 70 | | | | 0 (0%) |

Conductivity-µmhos

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 5 | 413 | 408.8 | 417.2 | 410 | 418 | 1.517 | 3.391 | 0.82% | 0 |
| 100 | | 5 | 680.8 | 676.1 | 685.5 | 675 | 685 | 1.685 | 3.768 | 0.55% | 0 |
| Overall | | 10 | 546.9 | | | 410 | 685 | | | | 0 (0%) |

Hardness (CaCO3)-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|------|---------|---------|-----|-----|---------|---------|------|----------|
| 0 | Negative Contr | 1 | 100 | | | 100 | 100 | 0 | 0 | 0.0% | 0 |
| 100 | | 1 | 184 | | | 184 | 184 | 0 | 0 | 0.0% | 0 |
| Overall | | 2 | 142 | | | 100 | 184 | | | | 0 (0%) |

pH-Units

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 5 | 7.68 | 7.576 | 7.784 | 7.6 | 7.8 | 0.03742 | 0.08367 | 1.09% | 0 |
| 100 | | 5 | 7.72 | 7.032 | 8.408 | 7.4 | 8.7 | 0.2478 | 0.5541 | 7.18% | 0 |
| Overall | | 10 | 7.7 | | | 7.4 | 8.7 | | | | 0 (0%) |

Temperature-°C

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|------|---------|---------|-----|------|---------|---------|-------|----------|
| 0 | Negative Contr | 5 | 24.2 | 23.86 | 24.54 | 24 | 24.5 | 0.1225 | 0.2739 | 1.13% | 0 |
| 100 | | 5 | 24.2 | 23.86 | 24.54 | 24 | 24.5 | 0.1225 | 0.2739 | 1.13% | 0 |
| Overall | | 10 | 24.2 | | | 24 | 24.5 | | | | 0 (0%) |



January 27, 2016

Mr. Bryn Home
Pacific Ridgeline, Inc.
230 Dove Court
Santa Paula, CA 93060

Dear Mr. Home:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*. "All acceptability criteria were met and the concentration-response was normal. This is a valid test." Results were as follows:

| | |
|----------------|-------------------------|
| CLIENT: | Pacific Ridgeline, Inc. |
| SAMPLE I.D.: | LAILG-NGA-64-4 |
| DATE RECEIVED: | 6 Jan -16 |
| ABC LAB. NO.: | PRI0116.043 |

CHRONIC FATHEAD LARVAE SURVIVAL & GROWTH BIOASSAY

| | | |
|----------|--------|-----------|
| SURVIVAL | NOEC = | 100.00 % |
| | TUc = | 1.00 |
| | EC25 = | >100.00 % |
| | EC50 = | >100.00 % |

| | | |
|--------|--------|-----------|
| GROWTH | NOEC = | 100.00 % |
| | TUc = | 1.00 |
| | IC25 = | >100.00 % |
| | IC50 = | >100.00 % |

Yours very truly,


Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 22 Jan-16 10:08 (p 1 of 2)
 Test Code: PRI0116.043fml | 10-1288-2763

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | |
|--------------------------------------|--|---|
| Batch ID: 03-0133-2741 | Test Type: Growth-Survival (7d) | Analyst: |
| Start Date: 06 Jan-16 14:21 | Protocol: EPA/821/R-02-013 (2002) | Diluent: Laboratory Water |
| Ending Date: 13 Jan-16 14:45 | Species: Pimephales promelas | Brine: Not Applicable |
| Duration: 7d 0h | Source: Aquatic Biosystems, CO | Age: |
| Sample ID: 20-3267-2506 | Code: PRI0116.043fml | Client: Pacific Ridgeline, Inc. |
| Sample Date: 05 Jan-16 08:30 | Material: Sample Water | Project: Nursery Growers Association |
| Receive Date: 06 Jan-16 13:12 | Source: Bioassay Report | |
| Sample Age: 30h (12 °C) | Station: LAILG-NGA-64-4 | |

Comparison Summary

| Analysis ID | Endpoint | NOEL | LOEL | TOEL | PMSD | TU | Method |
|--------------|---------------------|------|------|------|-------|----|-----------------------------------|
| 19-7000-5604 | 7d Survival Rate | 100 | >100 | NA | 3.7% | 1 | Wilcoxon Rank Sum Two-Sample Test |
| 08-3675-7225 | Mean Dry Biomass-mg | 100 | >100 | NA | 10.8% | 1 | Equal Variance t Two-Sample Test |

Point Estimate Summary

| Analysis ID | Endpoint | Level | % | 95% LCL | 95% UCL | TU | Method |
|--------------|---------------------|-------|------|---------|---------|----|------------------------------|
| 01-6612-0313 | 7d Survival Rate | EC5 | >100 | N/A | N/A | <1 | Linear Interpolation (ICPIN) |
| | | EC10 | >100 | N/A | N/A | <1 | |
| | | EC15 | >100 | N/A | N/A | <1 | |
| | | EC20 | >100 | N/A | N/A | <1 | |
| | | EC25 | >100 | N/A | N/A | <1 | |
| | | EC40 | >100 | N/A | N/A | <1 | |
| 09-0658-5027 | Mean Dry Biomass-mg | IC5 | >100 | N/A | N/A | <1 | Linear Interpolation (ICPIN) |
| | | IC10 | >100 | N/A | N/A | <1 | |
| | | IC15 | >100 | N/A | N/A | <1 | |
| | | IC20 | >100 | N/A | N/A | <1 | |
| | | IC25 | >100 | N/A | N/A | <1 | |
| | | IC40 | >100 | N/A | N/A | <1 | |

Test Acceptability

| Analysis ID | Endpoint | Attribute | Test Stat | TAC Limits | Overlap | Decision |
|--------------|---------------------|--------------|-----------|------------|---------|-------------------------------|
| 01-6612-0313 | 7d Survival Rate | Control Resp | 1 | 0.8 - NL | Yes | Passes Acceptability Criteria |
| 19-7000-5604 | 7d Survival Rate | Control Resp | 1 | 0.8 - NL | Yes | Passes Acceptability Criteria |
| 08-3675-7225 | Mean Dry Biomass-mg | Control Resp | 0.3037 | 0.25 - NL | Yes | Passes Acceptability Criteria |
| 09-0658-5027 | Mean Dry Biomass-mg | Control Resp | 0.3037 | 0.25 - NL | Yes | Passes Acceptability Criteria |
| 08-3675-7225 | Mean Dry Biomass-mg | PMSD | 0.1077 | 0.12 - 0.3 | Yes | Below Acceptability Criteria |

7d Survival Rate Summary

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | %Effect |
|-----|------------------|-------|--------|---------|---------|--------|-----|---------|---------|-------|---------|
| 0 | Negative Control | 4 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0.0% | 0.0% |
| 100 | | 4 | 0.9833 | 0.9303 | 1 | 0.9333 | 1 | 0.01667 | 0.03333 | 3.39% | 1.67% |

Mean Dry Biomass-mg Summary

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | %Effect |
|-----|------------------|-------|--------|---------|---------|--------|--------|----------|---------|-------|---------|
| 0 | Negative Control | 4 | 0.3037 | 0.2747 | 0.3326 | 0.2853 | 0.3287 | 0.009102 | 0.0182 | 6.0% | 0.0% |
| 100 | | 4 | 0.3103 | 0.2653 | 0.3554 | 0.2833 | 0.3407 | 0.01415 | 0.0283 | 9.12% | -2.2% |

7d Survival Rate Detail

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|-----|------------------|-------|-------|-------|--------|
| 0 | Negative Control | 1 | 1 | 1 | 1 |
| 100 | | 1 | 1 | 1 | 0.9333 |

Mean Dry Biomass-mg Detail

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|-----|------------------|--------|-------|--------|--------|
| 0 | Negative Control | 0.2853 | 0.298 | 0.3027 | 0.3287 |
| 100 | | 0.3407 | 0.328 | 0.2893 | 0.2833 |

CETIS Analytical Report

Report Date: 22 Jan-16 10:08 (p 1 of 3)
 Test Code: PRI0116.043fml | 10-1288-2763

| Fathead Minnow 7-d Larval Survival and Growth Test | | | | | | Aquatic Bioassay & Consulting Labs, Inc. | | | | | |
|--|---------------------------------|------------------------------------|-------------|----------|-------------------------|--|------------------------|--------|------------------------|-------|---------|
| Analysis ID: 19-7000-5604 | | Endpoint: 7d Survival Rate | | | | CETIS Version: CETISv1.8.7 | | | | | |
| Analyzed: 22 Jan-16 10:07 | | Analysis: Nonparametric-Two Sample | | | | Official Results: Yes | | | | | |
| Data Transform | Zeta | Alt Hyp | Trials | Seed | PMSD | Test Result | | | | | |
| Angular (Corrected) | NA | C > T | NA | NA | 3.7% | Passes 7d survival rate | | | | | |
| Wilcoxon Rank Sum Two-Sample Test | | | | | | | | | | | |
| Control | vs | C-% | Test Stat | Critical | Ties | DF | P-Value | P-Type | Decision(α:5%) | | |
| Negative Control | | 100 | 16 | NA | 1 | 6 | 0.5000 | Exact | Non-Significant Effect | | |
| ANOVA Table | | | | | | | | | | | |
| Source | Sum Squares | | Mean Square | DF | F Stat | P-Value | Decision(α:5%) | | | | |
| Between | 0.002168001 | | 0.002168001 | 1 | 1 | 0.3559 | Non-Significant Effect | | | | |
| Error | 0.013008 | | 0.002168001 | 6 | | | | | | | |
| Total | 0.015176 | | | 7 | | | | | | | |
| Distributional Tests | | | | | | | | | | | |
| Attribute | Test | Test Stat | Critical | P-Value | Decision(α:1%) | | | | | | |
| Variances | Mod Levene Equality of Variance | 1 | 13.75 | 0.3559 | Equal Variances | | | | | | |
| Variances | Levene Equality of Variance | 9 | 13.75 | 0.0240 | Equal Variances | | | | | | |
| Distribution | Shapiro-Wilk W Normality | 0.7065 | 0.6451 | 0.0027 | Non-normal Distribution | | | | | | |
| Distribution | Kolmogorov-Smirnov D | 0.375 | 0.3313 | 0.0015 | Non-normal Distribution | | | | | | |
| Distribution | Anderson-Darling A2 Normality | 1.162 | 3.878 | 0.0049 | Non-normal Distribution | | | | | | |
| 7d Survival Rate Summary | | | | | | | | | | | |
| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Median | Min | Max | Std Err | CV% | %Effect |
| 0 | Negative Control | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0.0% | 0.0% |
| 100 | | 4 | 0.9833 | 0.9303 | 1 | 1 | 0.9333 | 1 | 0.01667 | 3.39% | 1.67% |
| Angular (Corrected) Transformed Summary | | | | | | | | | | | |
| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Median | Min | Max | Std Err | CV% | %Effect |
| 0 | Negative Contr | 4 | 1.441 | 1.441 | 1.442 | 1.441 | 1.441 | 1.441 | 0 | 0.0% | 0.0% |
| 100 | | 4 | 1.408 | 1.304 | 1.513 | 1.441 | 1.31 | 1.441 | 0.03292 | 4.68% | 2.28% |
| 7d Survival Rate Detail | | | | | | | | | | | |
| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | | | | | | |
| 0 | Negative Control | 1 | 1 | 1 | 1 | | | | | | |
| 100 | | 1 | 1 | 1 | 0.9333 | | | | | | |
| Angular (Corrected) Transformed Detail | | | | | | | | | | | |
| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | | | | | | |
| 0 | Negative Control | 1.441 | 1.441 | 1.441 | 1.441 | | | | | | |
| 100 | | 1.441 | 1.441 | 1.441 | 1.31 | | | | | | |
| 7d Survival Rate Binomials | | | | | | | | | | | |
| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | | | | | | |
| 0 | Negative Control | 15/15 | 15/15 | 15/15 | 15/15 | | | | | | |
| 100 | | 15/15 | 15/15 | 15/15 | 14/15 | | | | | | |

CETIS Analytical Report

Report Date: 22 Jan-16 10:08 (p 2 of 3)
 Test Code: PRI0116.043fml | 10-1288-2763

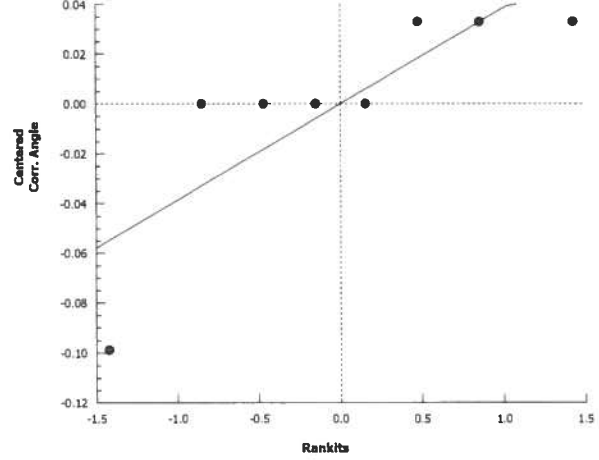
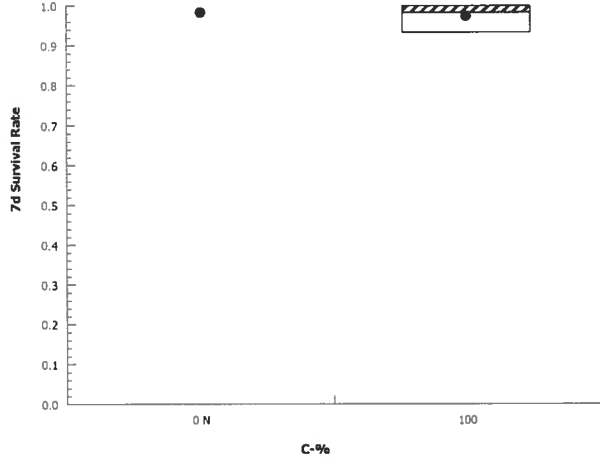
Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 19-7000-5604 Endpoint: 7d Survival Rate
 Analyzed: 22 Jan-16 10:07 Analysis: Nonparametric-Two Sample

CETIS Version: CETISv1.8.7
 Official Results: Yes

Graphics



CETIS Analytical Report

Report Date: 22 Jan-16 10:08 (p 1 of 2)
 Test Code: PRI0116.043fml | 10-1288-2763

| | | | | | |
|---|---|-----------------------------------|---|--|--|
| Fathead Minnow 7-d Larval Survival and Growth Test | | | Aquatic Bioassay & Consulting Labs, Inc. | | |
| Analysis ID: 01-6612-0313 | Endpoint: 7d Survival Rate | CETIS Version: CETISv1.8.7 | | | |
| Analyzed: 22 Jan-16 10:07 | Analysis: Linear Interpolation (ICPIN) | Official Results: Yes | | | |

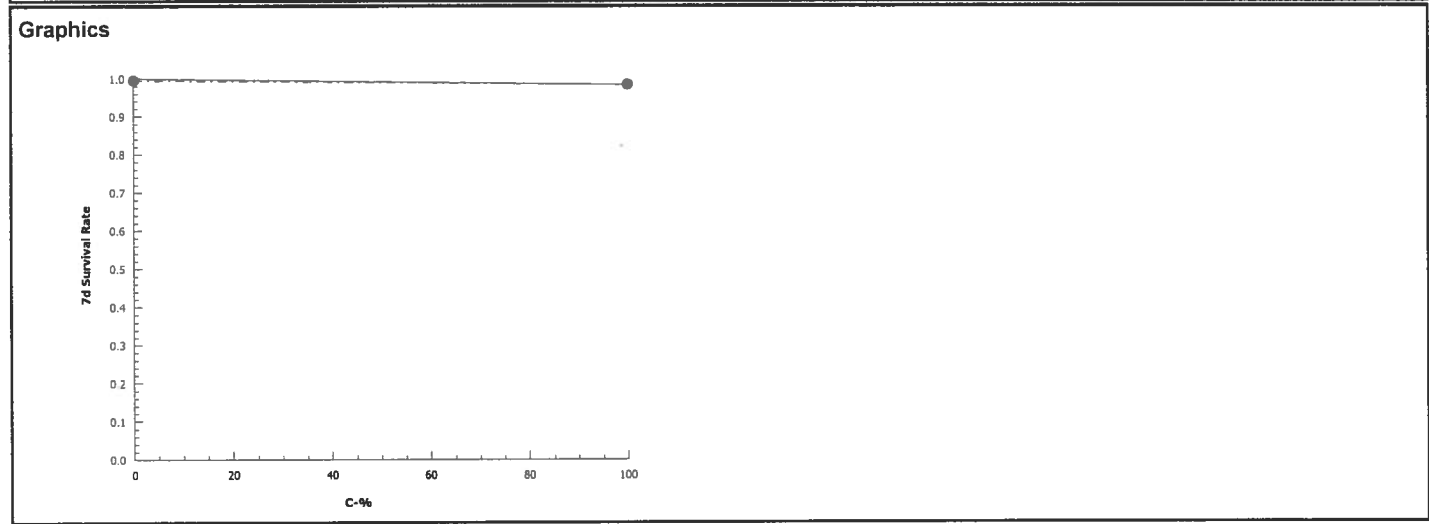
| Linear Interpolation Options | | | | | |
|-------------------------------------|-------------|------|-----------|------------|-------------------------|
| X Transform | Y Transform | Seed | Resamples | Exp 95% CL | Method |
| Linear | Linear | 0 | 280 | Yes | Two-Point Interpolation |

| Point Estimates | | | | | | |
|------------------------|------|---------|---------|----|---------|---------|
| Level | % | 95% LCL | 95% UCL | TU | 95% LCL | 95% UCL |
| EC5 | >100 | N/A | N/A | <1 | NA | NA |
| EC10 | >100 | N/A | N/A | <1 | NA | NA |
| EC15 | >100 | N/A | N/A | <1 | NA | NA |
| EC20 | >100 | N/A | N/A | <1 | NA | NA |
| EC25 | >100 | N/A | N/A | <1 | NA | NA |
| EC40 | >100 | N/A | N/A | <1 | NA | NA |
| EC50 | >100 | N/A | N/A | <1 | NA | NA |

| 7d Survival Rate Summary | | | Calculated Variate(A/B) | | | | | | | | |
|---------------------------------|------------------|-------|--------------------------------|--------|-----|---------|---------|-------|---------|----|----|
| C-% | Control Type | Count | Mean | Min | Max | Std Err | Std Dev | CV% | %Effect | A | B |
| 0 | Negative Control | 4 | 1 | 1 | 1 | 0 | 0 | 0.0% | 0.0% | 60 | 60 |
| 100 | | 4 | 0.9833 | 0.9333 | 1 | 0.01667 | 0.03333 | 3.39% | 1.67% | 59 | 60 |

| 7d Survival Rate Detail | | | | | |
|--------------------------------|------------------|-------|-------|-------|--------|
| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
| 0 | Negative Control | 1 | 1 | 1 | 1 |
| 100 | | 1 | 1 | 1 | 0.9333 |

| 7d Survival Rate Binomials | | | | | |
|-----------------------------------|------------------|-------|-------|-------|-------|
| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
| 0 | Negative Control | 15/15 | 15/15 | 15/15 | 15/15 |
| 100 | | 15/15 | 15/15 | 15/15 | 14/15 |



CETIS Analytical Report

Report Date: 22 Jan-16 10:08 (p 2 of 2)
 Test Code: PRI0116.043fml | 10-1288-2763

Fathead Minnow 7-d Larval Survival and Growth Test Aquatic Bioassay & Consulting Labs, Inc.

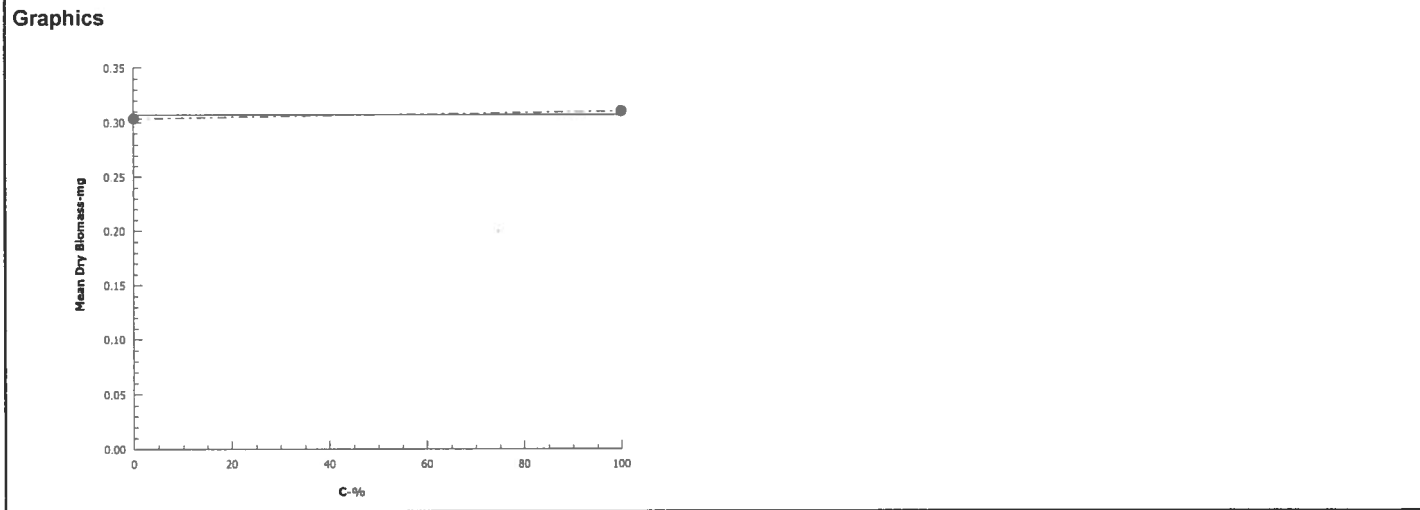
Analysis ID: 09-0658-5027 Endpoint: Mean Dry Biomass-mg CETIS Version: CETISv1.8.7
 Analyzed: 22 Jan-16 10:07 Analysis: Linear Interpolation (ICPIN) Official Results: Yes

| Linear Interpolation Options | | | | | |
|------------------------------|-------------|---------|-----------|------------|-------------------------|
| X Transform | Y Transform | Seed | Resamples | Exp 95% CL | Method |
| Linear | Linear | 1840059 | 280 | Yes | Two-Point Interpolation |

| Point Estimates | | | | | | |
|-----------------|------|---------|---------|----|---------|---------|
| Level | % | 95% LCL | 95% UCL | TU | 95% LCL | 95% UCL |
| IC5 | >100 | N/A | N/A | <1 | NA | NA |
| IC10 | >100 | N/A | N/A | <1 | NA | NA |
| IC15 | >100 | N/A | N/A | <1 | NA | NA |
| IC20 | >100 | N/A | N/A | <1 | NA | NA |
| IC25 | >100 | N/A | N/A | <1 | NA | NA |
| IC40 | >100 | N/A | N/A | <1 | NA | NA |
| IC50 | >100 | N/A | N/A | <1 | NA | NA |

| Mean Dry Biomass-mg Summary | | | | Calculated Variate | | | | | |
|-----------------------------|------------------|-------|--------|--------------------|--------|----------|---------|-------|---------|
| C-% | Control Type | Count | Mean | Min | Max | Std Err | Std Dev | CV% | %Effect |
| 0 | Negative Control | 4 | 0.3037 | 0.2853 | 0.3287 | 0.009102 | 0.0182 | 6.0% | 0.0% |
| 100 | | 4 | 0.3103 | 0.2833 | 0.3407 | 0.01415 | 0.0283 | 9.12% | -2.2% |

| Mean Dry Biomass-mg Detail | | | | | |
|----------------------------|------------------|--------|-------|--------|--------|
| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
| 0 | Negative Control | 0.2853 | 0.298 | 0.3027 | 0.3287 |
| 100 | | 0.3407 | 0.328 | 0.2893 | 0.2833 |



CETIS Measurement Report

Report Date: 22 Jan-16 10:08 (p 1 of 2)

Test Code: PRI0116.043fml | 10-1288-2763

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | |
|-------------------------------|-----------------------------------|--------------------------------------|
| Batch ID: 03-0133-2741 | Test Type: Growth-Survival (7d) | Analyst: |
| Start Date: 06 Jan-16 14:21 | Protocol: EPA/821/R-02-013 (2002) | Diluent: Laboratory Water |
| Ending Date: 13 Jan-16 14:45 | Species: Pimephales promelas | Brine: Not Applicable |
| Duration: 7d 0h | Source: Aquatic Biosystems, CO | Age: |
| Sample ID: 20-3267-2506 | Code: PRI0116.043fml | Client: Pacific Ridgeline, Inc. |
| Sample Date: 05 Jan-16 08:30 | Material: Sample Water | Project: Nursery Growers Association |
| Receive Date: 06 Jan-16 13:12 | Source: Bioassay Report | |
| Sample Age: 30h (12 °C) | Station: LAILG-NGA-64-4 | |

Alkalinity (CaCO3)-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 64.88 | 62.71 | 67.04 | 63 | 68 | 0.9149 | 2.588 | 3.99% | 0 |
| 100 | | 8 | 48 | 48 | 48 | 48 | 48 | 0 | 0 | 0.0% | 0 |
| Overall | | 16 | 56.44 | | | 48 | 68 | | | | 0 (0%) |

Conductivity-µmhos

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 328.4 | 326 | 330.8 | 323 | 332 | 1.017 | 2.875 | 0.88% | 0 |
| 100 | | 8 | 150.5 | 146.6 | 154.4 | 142 | 157 | 1.669 | 4.721 | 3.14% | 0 |
| Overall | | 16 | 239.4 | | | 142 | 332 | | | | 0 (0%) |

Dissolved Oxygen-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|--------|----------|
| 0 | Negative Contr | 8 | 8.1 | 7.686 | 8.514 | 7.7 | 9.2 | 0.1753 | 0.4957 | 6.12% | 0 |
| 100 | | 8 | 6.538 | 5.68 | 7.395 | 5.5 | 8.6 | 0.3625 | 1.025 | 15.68% | 0 |
| Overall | | 16 | 7.319 | | | 5.5 | 9.2 | | | | 0 (0%) |

Hardness (CaCO3)-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 92.63 | 89.6 | 95.65 | 90 | 97 | 1.281 | 3.623 | 3.91% | 0 |
| 100 | | 8 | 115 | 115 | 115 | 115 | 115 | 0 | 0 | 0.0% | 0 |
| Overall | | 16 | 103.8 | | | 90 | 115 | | | | 0 (0%) |

pH-Units

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 8.025 | 7.803 | 8.247 | 7.6 | 8.3 | 0.09402 | 0.2659 | 3.31% | 0 |
| 100 | | 8 | 7.788 | 7.585 | 7.99 | 7.5 | 8.1 | 0.08544 | 0.2416 | 3.1% | 0 |
| Overall | | 16 | 7.906 | | | 7.5 | 8.3 | | | | 0 (0%) |

Temperature-°C

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|------|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 24.13 | 23.93 | 24.32 | 24 | 24.5 | 0.08183 | 0.2315 | 0.96% | 0 |
| 100 | | 8 | 24.17 | 23.97 | 24.36 | 24 | 24.5 | 0.08287 | 0.2344 | 0.97% | 0 |
| Overall | | 16 | 24.15 | | | 24 | 24.5 | | | | 0 (0%) |

CETIS Measurement Report

Report Date: 22 Jan-16 10:08 (p 2 of 2)

Test Code: PRI0116.043fml | 10-1288-2763

Fathead Minnow 7-d Larval Survival and Growth Test**Aquatic Bioassay & Consulting Labs, Inc.****Alkalinity (CaCO3)-mg/L**

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|----|----|----|----|----|----|----|----|
| 0 | Negative Contr | 68 | 68 | 68 | 63 | 63 | 63 | 63 | 63 |
| 100 | | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Conductivity-µmhos

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 328 | 332 | 323 | 328 | 330 | 326 | 329 | 331 |
| 100 | | 142 | 147 | 153 | 155 | 150 | 157 | 151 | 149 |

Dissolved Oxygen-mg/L

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 7.8 | 8.4 | 7.7 | 7.8 | 7.9 | 7.9 | 8.1 | 9.2 |
| 100 | | 8.6 | 5.6 | 6.1 | 6.2 | 7 | 7.2 | 6.1 | 5.5 |

Hardness (CaCO3)-mg/L

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 97 | 97 | 97 | 90 | 90 | 90 | 90 | 90 |
| 100 | | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 |

pH-Units

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 8.1 | 7.9 | 7.7 | 8.3 | 8.1 | 8.2 | 7.6 | 8.3 |
| 100 | | 7.7 | 7.7 | 8.1 | 8.1 | 8 | 7.5 | 7.6 | 7.6 |

Temperature-°C

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-------|----|----|------|----|------|------|----|
| 0 | Negative Contr | 24 | 24 | 24 | 24.5 | 24 | 24 | 24.5 | 24 |
| 100 | | 24.32 | 24 | 24 | 24.5 | 24 | 24.5 | 24 | 24 |



January 27, 2016

Mr. Bryn Home
Pacific Ridgeline, Inc.
230 Dove Court
Santa Paula, CA 93060

Dear Mr. Home:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*. "All acceptability criteria were met and the concentration-response was normal. This is a valid test." Results were as follows:

| | |
|----------------|-------------------------|
| CLIENT: | Pacific Ridgeline, Inc. |
| SAMPLE I.D.: | LAILG-NGA-64-4 |
| DATE RECEIVED: | 6 Jan -16 |
| ABC LAB. NO.: | PRI0116.043 |

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

| | | |
|----------|--------|-----------|
| SURVIVAL | NOEC = | 100.00 % |
| | TUc = | 1.00 |
| | EC25 = | >100.00 % |
| | EC50 = | >100.00 % |

| | | |
|--------------|--------|-----------|
| REPRODUCTION | NOEC = | 100.00 % |
| | TUc = | 1.00 |
| | IC25 = | >100.00 % |
| | IC50 = | >100.00 % |

Yours very truly,


Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 22 Jan-16 09:59 (p 1 of 2)
 Test Code: PRI0116.043cer | 07-3596-5673

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | |
|-------------------------------|---------------------------------------|--------------------------------------|
| Batch ID: 05-1344-8268 | Test Type: Reproduction-Survival (7d) | Analyst: |
| Start Date: 06 Jan-16 14:21 | Protocol: EPA/821/R-02-013 (2002) | Diluent: Laboratory Water |
| Ending Date: 13 Jan-16 14:45 | Species: Ceriodaphnia dubia | Brine: Not Applicable |
| Duration: 7d 0h | Source: Aquatic Biosystems, CO | Age: |
| Sample ID: 06-6107-0593 | Code: PRI0116.043cer | Client: Pacific Ridgeline, Inc. |
| Sample Date: 05 Jan-16 08:30 | Material: Sample Water | Project: Nursery Growers Association |
| Receive Date: 06 Jan-16 13:12 | Source: Bioassay Report | |
| Sample Age: 30h (12 °C) | Station: LAILG-NGA-64-4 | |

Comparison Summary

| Analysis ID | Endpoint | NOEL | LOEL | TOEL | PMSD | TU | Method |
|--------------|------------------|------|------|------|-------|----|--------------------|
| 07-8564-8908 | 7d Survival Rate | 100 | >100 | NA | NA | 1 | Fisher Exact Test |
| 00-4293-7593 | Reproduction | 100 | >100 | NA | 23.8% | 1 | TST-Welch's t Test |

Point Estimate Summary

| Analysis ID | Endpoint | Level | % | 95% LCL | 95% UCL | TU | Method |
|--------------|------------------|-------|------|---------|---------|----|------------------------------|
| 05-7279-8684 | 7d Survival Rate | EC5 | >100 | N/A | N/A | <1 | Linear Interpolation (ICPIN) |
| | | EC10 | >100 | N/A | N/A | <1 | |
| | | EC15 | >100 | N/A | N/A | <1 | |
| | | EC20 | >100 | N/A | N/A | <1 | |
| | | EC25 | >100 | N/A | N/A | <1 | |
| | | EC40 | >100 | N/A | N/A | <1 | |
| 01-7945-0681 | Reproduction | IC5 | >100 | N/A | N/A | <1 | Linear Interpolation (ICPIN) |
| | | IC10 | >100 | N/A | N/A | <1 | |
| | | IC15 | >100 | N/A | N/A | <1 | |
| | | IC20 | >100 | N/A | N/A | <1 | |
| | | IC25 | >100 | N/A | N/A | <1 | |
| | | IC40 | >100 | N/A | N/A | <1 | |

Test Acceptability

| Analysis ID | Endpoint | Attribute | Test Stat | TAC Limits | Overlap | Decision |
|--------------|------------------|--------------|-----------|-------------|---------|-------------------------------|
| 05-7279-8684 | 7d Survival Rate | Control Resp | 1 | 0.8 - NL | Yes | Passes Acceptability Criteria |
| 07-8564-8908 | 7d Survival Rate | Control Resp | 1 | 0.8 - NL | Yes | Passes Acceptability Criteria |
| 00-4293-7593 | Reproduction | Control Resp | 16.8 | 15 - NL | Yes | Passes Acceptability Criteria |
| 01-7945-0681 | Reproduction | Control Resp | 16.8 | 15 - NL | Yes | Passes Acceptability Criteria |
| 00-4293-7593 | Reproduction | PMSD | 0.2384 | 0.13 - 0.47 | Yes | Passes Acceptability Criteria |

7d Survival Rate Summary

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | %Effect |
|-----|------------------|-------|------|---------|---------|-----|-----|---------|---------|------|---------|
| 0 | Negative Control | 10 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0.0% | 0.0% |
| 100 | | 10 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0.0% | 0.0% |

Reproduction Summary

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | %Effect |
|-----|------------------|-------|------|---------|---------|-----|-----|---------|---------|--------|---------|
| 0 | Negative Control | 10 | 16.8 | 10.27 | 23.33 | 7 | 35 | 2.886 | 9.126 | 54.32% | 0.0% |
| 100 | | 10 | 29.2 | 20.01 | 38.39 | 15 | 51 | 4.063 | 12.85 | 44.0% | -73.81% |

7d Survival Rate Detail

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | Rep 6 | Rep 7 | Rep 8 | Rep 9 | Rep 10 |
|-----|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0 | Negative Control | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 100 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Reproduction Detail

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | Rep 6 | Rep 7 | Rep 8 | Rep 9 | Rep 10 |
|-----|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0 | Negative Control | 11 | 7 | 26 | 35 | 7 | 13 | 15 | 19 | 11 | 24 |
| 100 | | 47 | 27 | 22 | 42 | 51 | 26 | 18 | 18 | 15 | 26 |

CETIS Summary Report

Report Date: 22 Jan-16 09:59 (p 2 of 2)

Test Code: PRI0116.043cer | 07-3596-5673

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Binomials

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | Rep 6 | Rep 7 | Rep 8 | Rep 9 | Rep 10 |
|-----|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0 | Negative Control | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| 100 | | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |

CETIS Analytical Report

Report Date: 22 Jan-16 09:58 (p 1 of 1)

Test Code: PRI0116.043cer | 07-3596-5673

| | | | | | | | |
|--|-----------------|-----------|--------------------------------------|---|-------------|--|--|
| Ceriodaphnia 7-d Survival and Reproduction Test | | | | Aquatic Bioassay & Consulting Labs, Inc. | | | |
| Analysis ID: | 00-4293-7593 | Endpoint: | Reproduction | CETIS Version: | CETISv1.8.7 | | |
| Analyzed: | 20 Jan-16 15:26 | Analysis: | Parametric Bioequivalence-Two Sample | Official Results: | Yes | | |

| Data Transform | Zeta | Alt Hyp | Trials | Seed | TST b | PMSD | Test Result |
|----------------|------|---------|--------|------|-------|-------|---------------------|
| Untransformed | NA | C*b < T | NA | NA | 0.75 | 23.8% | Passes reproduction |

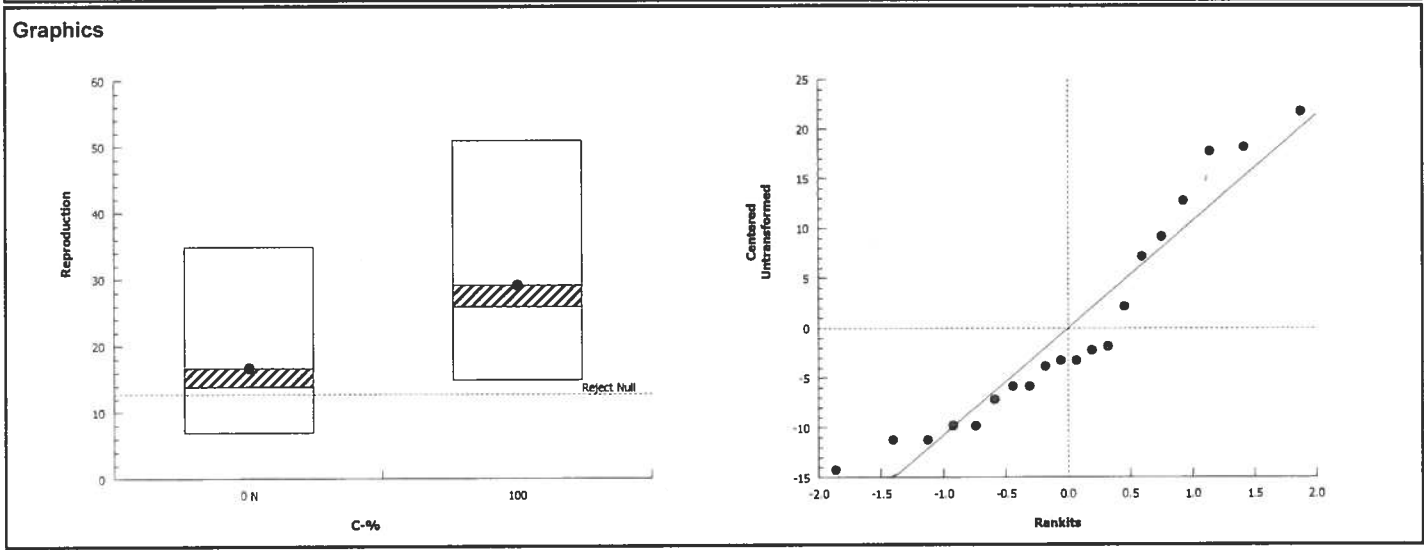
| Control | vs | C-% | Test Stat | Critical | MSD | DF | P-Value | P-Type | Decision(α:20%) |
|------------------|----|------|-----------|----------|-------|----|---------|--------|------------------------|
| Negative Control | | 100* | 3.606 | 0.8702 | 4.006 | 13 | 0.0016 | CDF | Non-Significant Effect |

| Source | Sum Squares | Mean Square | DF | F Stat | P-Value | Decision(α:5%) |
|---------|-------------|-------------|----|--------|---------|--------------------|
| Between | 768.8 | 768.8 | 1 | 6.191 | 0.0229 | Significant Effect |
| Error | 2235.2 | 124.1778 | 18 | | | |
| Total | 3004 | | 19 | | | |

| Attribute | Test | Test Stat | Critical | P-Value | Decision(α:1%) |
|--------------|---------------------------------|-----------|----------|---------|---------------------|
| Variances | Variance Ratio F | 1.982 | 6.541 | 0.3228 | Equal Variances |
| Variances | Mod Levene Equality of Variance | 0.4973 | 8.285 | 0.4897 | Equal Variances |
| Variances | Levene Equality of Variance | 1.472 | 8.285 | 0.2407 | Equal Variances |
| Distribution | Shapiro-Wilk W Normality | 0.9025 | 0.866 | 0.0460 | Normal Distribution |
| Distribution | Kolmogorov-Smirnov D | 0.2159 | 0.2235 | 0.0153 | Normal Distribution |
| Distribution | D'Agostino Skewness | 1.529 | 2.576 | 0.1263 | Normal Distribution |
| Distribution | D'Agostino Kurtosis | 0.5012 | 2.576 | 0.6163 | Normal Distribution |
| Distribution | D'Agostino-Pearson K2 Omnibus | 2.589 | 9.21 | 0.2741 | Normal Distribution |
| Distribution | Anderson-Darling A2 Normality | 0.882 | 3.878 | 0.0239 | Normal Distribution |

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Median | Min | Max | Std Err | CV% | %Effect |
|-----|------------------|-------|------|---------|---------|--------|-----|-----|---------|--------|---------|
| 0 | Negative Control | 10 | 16.8 | 10.27 | 23.33 | 14 | 7 | 35 | 2.886 | 54.32% | 0.0% |
| 100 | | 10 | 29.2 | 20.01 | 38.39 | 26 | 15 | 51 | 4.063 | 44.0% | -73.81% |

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | Rep 6 | Rep 7 | Rep 8 | Rep 9 | Rep 10 |
|-----|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0 | Negative Control | 11 | 7 | 26 | 35 | 7 | 13 | 15 | 19 | 11 | 24 |
| 100 | | 47 | 27 | 22 | 42 | 51 | 26 | 18 | 18 | 15 | 26 |



CETIS Measurement Report

Report Date: 22 Jan-16 09:59 (p 1 of 2)

Test Code: PRI0116.043cer | 07-3596-5673

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | |
|--------------------------------------|--|---|
| Batch ID: 05-1344-8268 | Test Type: Reproduction-Survival (7d) | Analyst: |
| Start Date: 06 Jan-16 14:21 | Protocol: EPA/821/R-02-013 (2002) | Diluent: Laboratory Water |
| Ending Date: 13 Jan-16 14:45 | Species: Ceriodaphnia dubia | Brine: Not Applicable |
| Duration: 7d 0h | Source: Aquatic Biosystems, CO | Age: |
| Sample ID: 06-6107-0593 | Code: PRI0116.043cer | Client: Pacific Ridgeline, Inc. |
| Sample Date: 05 Jan-16 08:30 | Material: Sample Water | Project: Nursery Growers Association |
| Receive Date: 06 Jan-16 13:12 | Source: Bioassay Report | |
| Sample Age: 30h (12 °C) | Station: LAILG-NGA-64-4 | |

Alkalinity (CaCO3)-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 64.88 | 62.71 | 67.04 | 63 | 68 | 0.9149 | 2.588 | 3.99% | 0 |
| 100 | | 8 | 48 | 48 | 48 | 48 | 48 | 0 | 0 | 0.0% | 0 |
| Overall | | 16 | 56.44 | | | 48 | 68 | | | | 0 (0%) |

Conductivity-µmhos

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 328.4 | 326 | 330.8 | 323 | 332 | 1.017 | 2.875 | 0.88% | 0 |
| 100 | | 8 | 150.5 | 146.6 | 154.4 | 142 | 157 | 1.669 | 4.721 | 3.14% | 0 |
| Overall | | 16 | 239.4 | | | 142 | 332 | | | | 0 (0%) |

Dissolved Oxygen-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|--------|----------|
| 0 | Negative Contr | 8 | 8.1 | 7.686 | 8.514 | 7.7 | 9.2 | 0.1753 | 0.4957 | 6.12% | 0 |
| 100 | | 8 | 6.538 | 5.68 | 7.395 | 5.5 | 8.6 | 0.3625 | 1.025 | 15.68% | 0 |
| Overall | | 16 | 7.319 | | | 5.5 | 9.2 | | | | 0 (0%) |

Hardness (CaCO3)-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 92.63 | 89.6 | 95.65 | 90 | 97 | 1.281 | 3.623 | 3.91% | 0 |
| 100 | | 8 | 115 | 115 | 115 | 115 | 115 | 0 | 0 | 0.0% | 0 |
| Overall | | 16 | 103.8 | | | 90 | 115 | | | | 0 (0%) |

pH-Units

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 8.025 | 7.803 | 8.247 | 7.6 | 8.3 | 0.09402 | 0.2659 | 3.31% | 0 |
| 100 | | 8 | 7.788 | 7.585 | 7.99 | 7.5 | 8.1 | 0.08544 | 0.2416 | 3.1% | 0 |
| Overall | | 16 | 7.906 | | | 7.5 | 8.3 | | | | 0 (0%) |

Temperature-°C

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|------|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 24.13 | 23.93 | 24.32 | 24 | 24.5 | 0.08183 | 0.2315 | 0.96% | 0 |
| 100 | | 8 | 24.17 | 23.97 | 24.36 | 24 | 24.5 | 0.08287 | 0.2344 | 0.97% | 0 |
| Overall | | 16 | 24.15 | | | 24 | 24.5 | | | | 0 (0%) |

CETIS Measurement Report

Report Date: 22 Jan-16 09:59 (p 2 of 2)
 Test Code: PRI0116.043cer | 07-3596-5673

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|----|----|----|----|----|----|----|----|
| 0 | Negative Contr | 68 | 68 | 68 | 63 | 63 | 63 | 63 | 63 |
| 100 | | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Conductivity-µmhos

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 328 | 332 | 323 | 328 | 330 | 326 | 329 | 331 |
| 100 | | 142 | 147 | 153 | 155 | 150 | 157 | 151 | 149 |

Dissolved Oxygen-mg/L

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 7.8 | 8.4 | 7.7 | 7.8 | 7.9 | 7.9 | 8.1 | 9.2 |
| 100 | | 8.6 | 5.6 | 6.1 | 6.2 | 7 | 7.2 | 6.1 | 5.5 |

Hardness (CaCO3)-mg/L

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 97 | 97 | 97 | 90 | 90 | 90 | 90 | 90 |
| 100 | | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 |

pH-Units

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 8.1 | 7.9 | 7.7 | 8.3 | 8.1 | 8.2 | 7.6 | 8.3 |
| 100 | | 7.7 | 7.7 | 8.1 | 8.1 | 8 | 7.5 | 7.6 | 7.6 |

Temperature-°C

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-------|----|----|------|----|------|------|----|
| 0 | Negative Contr | 24 | 24 | 24 | 24.5 | 24 | 24 | 24.5 | 24 |
| 100 | | 24.32 | 24 | 24 | 24.5 | 24 | 24.5 | 24 | 24 |



January 27, 2016

Mr. Bryn Home
Pacific Ridgeline, Inc.
230 Dove Court
Santa Paula, CA 93060

Dear Mr. Home:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*. "All acceptability criteria were met and the concentration-response was normal. This is a valid test." Results were as follows:

| | |
|----------------|-------------------------|
| CLIENT: | Pacific Ridgeline, Inc. |
| SAMPLE I.D.: | LAILG-NGA-64-4 |
| DATE RECEIVED: | 6 Jan -16 |
| ABC LAB. NO.: | PRI0116.043 |

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %

TUc = 1.00

IC25 = >100.00 %

IC50 = >100.00%

Yours very truly,



Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 27 Jan-16 09:44 (p 1 of 1)

Test Code: PRI0116.043sel | 05-0467-3206

Selenastrum Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | |
|-------------------------------|------------------------------------|--------------------------------------|
| Batch ID: 19-7023-3868 | Test Type: Cell Growth | Analyst: |
| Start Date: 06 Jan-16 16:00 | Protocol: EPA/821/R-02-013 (2002) | Diluent: Laboratory Water |
| Ending Date: 10 Jan-16 14:20 | Species: Selenastrum capricornutum | Brine: Not Applicable |
| Duration: 94h | Source: Aquatic Biosystems, CO | Age: |
| Sample ID: 08-1164-5064 | Code: PRI0116.043sel | Client: Pacific Ridgeline, Inc. |
| Sample Date: 05 Jan-16 08:30 | Material: Sample Water | Project: Nursery Growers Association |
| Receive Date: 06 Jan-16 13:12 | Source: Bioassay Report | |
| Sample Age: 32h (12 °C) | Station: LAILG-NGA-64-4 | |

Comparison Summary

| Analysis ID | Endpoint | NOEL | LOEL | TOEL | PMSD | TU | Method |
|--------------|--------------|------|------|------|-------|----|--------------------|
| 14-4855-8015 | Cell Density | 100 | >100 | NA | 2.44% | 1 | TST-Welch's t Test |

Point Estimate Summary

| Analysis ID | Endpoint | Level | % | 95% LCL | 95% UCL | TU | Method |
|--------------|--------------|-------|-------|---------|---------|-------|------------------------------|
| 11-1327-3066 | Cell Density | IC5 | 26.31 | 18.04 | 47.85 | 3.801 | Linear Interpolation (ICPIN) |
| | | IC10 | 52.62 | 36.09 | 95.71 | 1.9 | |
| | | IC15 | 78.93 | 54.13 | N/A | 1.267 | |
| | | IC20 | >100 | N/A | N/A | <1 | |
| | | IC25 | >100 | N/A | N/A | <1 | |
| | | IC40 | >100 | N/A | N/A | <1 | |
| | | IC50 | >100 | N/A | N/A | <1 | |

Test Acceptability

| Analysis ID | Endpoint | Attribute | Test Stat | TAC Limits | Overlap | Decision |
|--------------|--------------|--------------|-----------|--------------|---------|-------------------------------|
| 11-1327-3066 | Cell Density | Control CV | 0.01571 | NL - 0.2 | Yes | Passes Acceptability Criteria |
| 14-4855-8015 | Cell Density | Control CV | 0.01571 | NL - 0.2 | Yes | Passes Acceptability Criteria |
| 11-1327-3066 | Cell Density | Control Resp | 1.53E+6 | 1.00E+6 - NL | Yes | Passes Acceptability Criteria |
| 14-4855-8015 | Cell Density | Control Resp | 1.53E+6 | 1.00E+6 - NL | Yes | Passes Acceptability Criteria |
| 14-4855-8015 | Cell Density | PMSD | 0.02437 | 0.091 - 0.29 | Yes | Below Acceptability Criteria |

Cell Density Summary

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | %Effect |
|-----|------------------|-------|----------|----------|----------|----------|----------|----------|----------|-------|---------|
| 0 | Negative Control | 4 | 1.527E+6 | 1.489E+6 | 1.565E+6 | 1.496E+6 | 1.554E+6 | 1.200E+4 | 2.399E+4 | 1.57% | 0.0% |
| 100 | | 4 | 1.237E+6 | 1.085E+6 | 1.389E+6 | 1.151E+6 | 1.369E+6 | 4.782E+4 | 9.565E+4 | 7.73% | 19.0% |

Cell Density Detail

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|-----|------------------|----------|----------|----------|----------|
| 0 | Negative Control | 1.496E+6 | 1.526E+6 | 1.533E+6 | 1.554E+6 |
| 100 | | 1.369E+6 | 1.186E+6 | 1.242E+6 | 1.151E+6 |

CETIS Analytical Report

Report Date: 27 Jan-16 09:44 (p 1 of 1)
 Test Code: PRI0116.043sel | 05-0467-3206

Selenastrum Growth Test **Aquatic Bioassay & Consulting Labs, Inc.**

| | | |
|---------------------------|--|----------------------------|
| Analysis ID: 14-4855-8015 | Endpoint: Cell Density | CETIS Version: CETISv1.8.7 |
| Analyzed: 27 Jan-16 9:44 | Analysis: Parametric Bioequivalence-Two Sample | Official Results: Yes |

| Data Transform | Zeta | Alt Hyp | Trials | Seed | TST b | PMSD | Test Result |
|----------------|------|---------|--------|------|-------|-------|---------------------|
| Untransformed | NA | C*b < T | NA | NA | 0.75 | 2.44% | Passes cell density |

TST-Weich's t Test

| Control | vs C-% | Test Stat | Critical | MSD | DF | P-Value | P-Type | Decision(α:25%) |
|------------------|--------|-----------|----------|-------|----|---------|--------|------------------------|
| Negative Control | 100* | 1.882 | 0.7649 | 37220 | 3 | 0.0782 | CDF | Non-Significant Effect |

ANOVA Table

| Source | Sum Squares | Mean Square | DF | F Stat | P-Value | Decision(α:5%) |
|---------|--------------|--------------|----|--------|---------|--------------------|
| Between | 1.684901E+11 | 1.684901E+11 | 1 | 34.65 | 0.0011 | Significant Effect |
| Error | 29172750000 | 4862125000 | 6 | | | |
| Total | 1.976629E+11 | | 7 | | | |

Distributional Tests

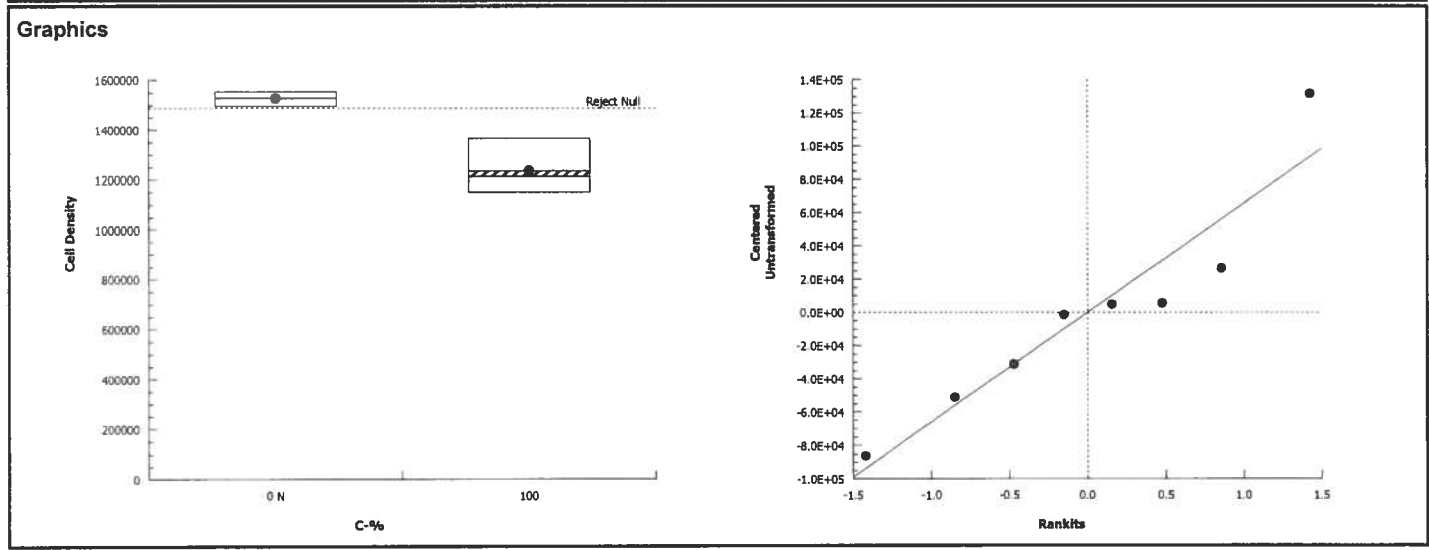
| Attribute | Test | Test Stat | Critical | P-Value | Decision(α:1%) |
|--------------|---------------------------------|-----------|----------|---------|---------------------|
| Variances | Variance Ratio F | 15.89 | 47.47 | 0.0480 | Equal Variances |
| Variances | Mod Levene Equality of Variance | 2.853 | 13.75 | 0.1422 | Equal Variances |
| Variances | Levene Equality of Variance | 3.505 | 13.75 | 0.1104 | Equal Variances |
| Distribution | Shapiro-Wilk W Normality | 0.9144 | 0.6451 | 0.3862 | Normal Distribution |
| Distribution | Kolmogorov-Smirnov D | 0.2145 | 0.3313 | 0.3921 | Normal Distribution |
| Distribution | Anderson-Darling A2 Normality | 0.4325 | 3.878 | 0.3084 | Normal Distribution |

Cell Density Summary

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Median | Min | Max | Std Err | CV% | %Effect |
|-----|------------------|-------|----------|----------|----------|---------|----------|----------|----------|-------|---------|
| 0 | Negative Control | 4 | 1.527E+6 | 1.489E+6 | 1.565E+6 | 1530000 | 1.496E+6 | 1.554E+6 | 1.200E+4 | 1.57% | 0.0% |
| 100 | | 4 | 1.237E+6 | 1.085E+6 | 1.389E+6 | 1214000 | 1.151E+6 | 1.369E+6 | 4.782E+4 | 7.73% | 19.0% |

Cell Density Detail

| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|-----|------------------|----------|----------|----------|----------|
| 0 | Negative Control | 1.496E+6 | 1.526E+6 | 1.533E+6 | 1.554E+6 |
| 100 | | 1.369E+6 | 1.186E+6 | 1.242E+6 | 1.151E+6 |



CETIS Analytical Report

Report Date: 27 Jan-16 09:44 (p 1 of 1)

Test Code: PRI0116.043sel | 05-0467-3206

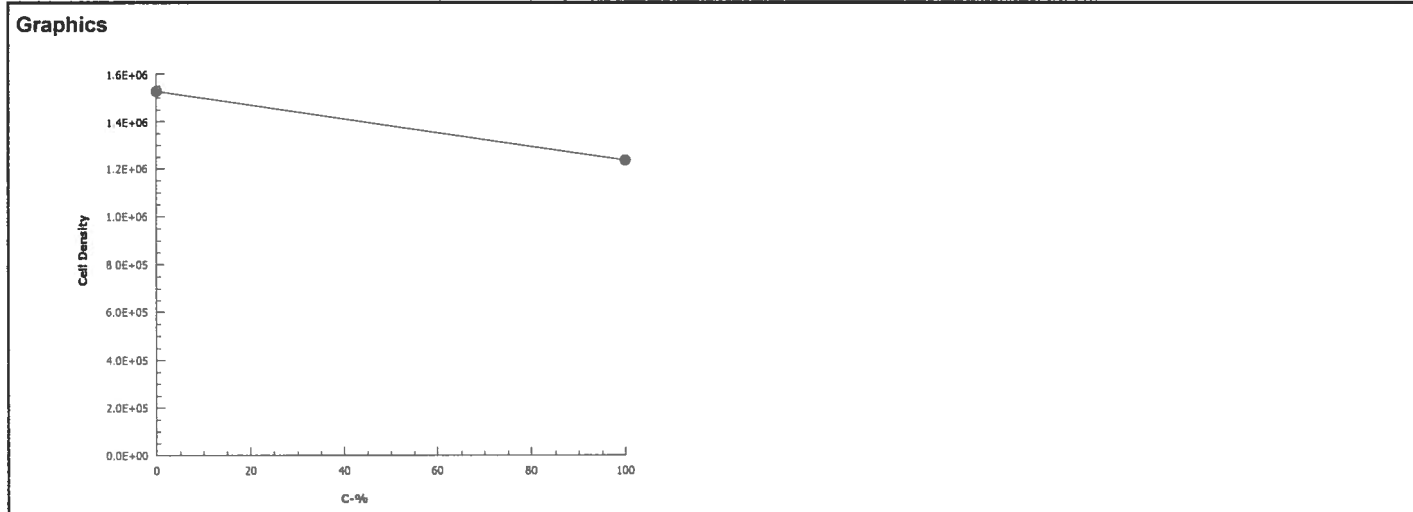
| | | | | | |
|----------------------------------|---|---|--|--|--|
| Selenastrum Growth Test | | Aquatic Bioassay & Consulting Labs, Inc. | | | |
| Analysis ID: 11-1327-3066 | Endpoint: Cell Density | CETIS Version: CETISv1.8.7 | | | |
| Analyzed: 27 Jan-16 9:44 | Analysis: Linear Interpolation (ICPIN) | Official Results: Yes | | | |

| Linear Interpolation Options | | | | | |
|------------------------------|-------------|------|-----------|------------|-------------------------|
| X Transform | Y Transform | Seed | Resamples | Exp 95% CL | Method |
| Linear | Linear | 0 | 280 | Yes | Two-Point Interpolation |

| Point Estimates | | | | | | |
|-----------------|-------|---------|---------|-------|---------|---------|
| Level | % | 95% LCL | 95% UCL | TU | 95% LCL | 95% UCL |
| IC5 | 26.31 | 18.04 | 47.85 | 3.801 | 2.09 | 5.542 |
| IC10 | 52.62 | 36.09 | 95.71 | 1.9 | 1.045 | 2.771 |
| IC15 | 78.93 | 54.13 | N/A | 1.267 | NA | 1.847 |
| IC20 | >100 | N/A | N/A | <1 | NA | NA |
| IC25 | >100 | N/A | N/A | <1 | NA | NA |
| IC40 | >100 | N/A | N/A | <1 | NA | NA |
| IC50 | >100 | N/A | N/A | <1 | NA | NA |

| Cell Density Summary | | | Calculated Variate | | | | | | |
|----------------------|------------------|-------|--------------------|----------|----------|----------|----------|-------|---------|
| C-% | Control Type | Count | Mean | Min | Max | Std Err | Std Dev | CV% | %Effect |
| 0 | Negative Control | 4 | 1.527E+6 | 1.496E+6 | 1.554E+6 | 1.200E+4 | 2.399E+4 | 1.57% | 0.0% |
| 100 | | 4 | 1.237E+6 | 1.151E+6 | 1.369E+6 | 4.782E+4 | 9.565E+4 | 7.73% | 19.0% |

| Cell Density Detail | | | | | |
|---------------------|------------------|----------|----------|----------|----------|
| C-% | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
| 0 | Negative Control | 1.496E+6 | 1.526E+6 | 1.533E+6 | 1.554E+6 |
| 100 | | 1.369E+6 | 1.186E+6 | 1.242E+6 | 1.151E+6 |



CETIS Measurement Report

Report Date: 27 Jan-16 09:44 (p 1 of 2)

Test Code: PRI0116.043sel | 05-0467-3206

Selenastrum Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | |
|--------------------------------------|---|---|
| Batch ID: 19-7023-3868 | Test Type: Cell Growth | Analyst: |
| Start Date: 06 Jan-16 16:00 | Protocol: EPA/821/R-02-013 (2002) | Diluent: Laboratory Water |
| Ending Date: 10 Jan-16 14:20 | Species: Selenastrum capricornutum | Brine: Not Applicable |
| Duration: 94h | Source: Aquatic Biosystems, CO | Age: |
| Sample ID: 08-1164-5064 | Code: PRI0116.043sel | Client: Pacific Ridgeline, Inc. |
| Sample Date: 05 Jan-16 08:30 | Material: Sample Water | Project: Nursery Growers Association |
| Receive Date: 06 Jan-16 13:12 | Source: Bioassay Report | |
| Sample Age: 32h (12 °C) | Station: LAILG-NGA-64-4 | |

Alkalinity (CaCO3)-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|------|---------|---------|-----|-----|---------|---------|------|----------|
| 0 | Negative Contr | 1 | 70 | | | 70 | 70 | 0 | 0 | 0.0% | 0 |
| 100 | | 1 | 48 | | | 48 | 48 | 0 | 0 | 0.0% | 0 |
| Overall | | 2 | 59 | | | 48 | 70 | | | | 0 (0%) |

Conductivity-µmhos

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 5 | 413 | 408.8 | 417.2 | 410 | 418 | 1.517 | 3.391 | 0.82% | 0 |
| 100 | | 5 | 261.6 | 252.2 | 271 | 251 | 269 | 3.4 | 7.603 | 2.91% | 0 |
| Overall | | 10 | 337.3 | | | 251 | 418 | | | | 0 (0%) |

Hardness (CaCO3)-mg/L

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|------|----------|
| 0 | Negative Contr | 1 | 100 | | | 100 | 100 | 0 | 0 | 0.0% | 0 |
| 100 | | 1 | 115 | | | 115 | 115 | 0 | 0 | 0.0% | 0 |
| Overall | | 2 | 107.5 | | | 100 | 115 | | | | 0 (0%) |

pH-Units

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 5 | 7.68 | 7.576 | 7.784 | 7.6 | 7.8 | 0.03742 | 0.08367 | 1.09% | 0 |
| 100 | | 5 | 7.9 | 7.338 | 8.462 | 7.6 | 8.7 | 0.2025 | 0.4528 | 5.73% | 0 |
| Overall | | 10 | 7.79 | | | 7.6 | 8.7 | | | | 0 (0%) |

Temperature-°C

| C-% | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|------|---------|---------|-----|------|---------|---------|-------|----------|
| 0 | Negative Contr | 5 | 24.2 | 23.86 | 24.54 | 24 | 24.5 | 0.1225 | 0.2739 | 1.13% | 0 |
| 100 | | 5 | 24.2 | 23.86 | 24.54 | 24 | 24.5 | 0.1225 | 0.2739 | 1.13% | 0 |
| Overall | | 10 | 24.2 | | | 24 | 24.5 | | | | 0 (0%) |

CETIS Measurement Report

Report Date: 27 Jan-16 09:44 (p 2 of 2)
 Test Code: PRI0116.043sel | 05-0467-3206

Selenastrum Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

| C-% | Control Type | 1 |
|-----|----------------|----|
| 0 | Negative Contr | 70 |
| 100 | | 48 |

Conductivity-µmhos

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 |
|-----|----------------|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 410 | 411 | 411 | 415 | 418 |
| 100 | | 251 | 257 | 263 | 268 | 269 |

Hardness (CaCO3)-mg/L

| C-% | Control Type | 1 |
|-----|----------------|-----|
| 0 | Negative Contr | 100 |
| 100 | | 115 |

pH-Units

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 |
|-----|----------------|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 7.6 | 7.7 | 7.6 | 7.7 | 7.8 |
| 100 | | 8.7 | 7.8 | 7.6 | 7.7 | 7.7 |

Temperature-°C

| C-% | Control Type | 1 | 2 | 3 | 4 | 5 |
|-----|----------------|------|------|----|----|----|
| 0 | Negative Contr | 24.5 | 24.5 | 24 | 24 | 24 |
| 100 | | 24.5 | 24.5 | 24 | 24 | 24 |

CHRONIC FATHEAD MINNOW SURVIVAL AND GROWTH BIOASSAY

DATE: 6 January 2016

STANDARD TOXICANT: Copper Chloride

ENDPOINT: SURVIVAL

NOEC = 38.00 ug/l

EC25 = 45.88 ug/l

EC50 = 58.39 ug/l


ENDPOINT: GROWTH

NOEC = 19.00 ug/l

IC25 = 30.24 ug/l

IC50 = 49.32 ug/l

Yours very truly,



Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 22 Jan-16 12:29 (p 1 of 2)
Test Code: FML010616 | 15-5420-7482

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 05-3787-4752 **Test Type:** Growth-Survival (7d) **Analyst:**
Start Date: 06 Jan-16 13:50 **Protocol:** EPA/821/R-02-013 (2002) **Diluent:** Laboratory Water
Ending Date: 13 Jan-16 11:50 **Species:** Pimephales promelas **Brine:** Not Applicable
Duration: 6d 22h **Source:** Aquatic Biosystems, CO **Age:**

Sample ID: 12-7379-3699 **Code:** FML010616 **Client:** ABC Labs
Sample Date: 06 Jan-16 13:50 **Material:** Copper chloride **Project:** REF TOX
Receive Date: **Source:** Reference Toxicant
Sample Age: NA **Station:** REF TOX

Comparison Summary

| Analysis ID | Endpoint | NOEL | LOEL | TOEL | PMSD | TU | Method |
|--------------|---------------------|------|------|-------|-------|----|----------------------------------|
| 13-2406-5401 | 7d Survival Rate | 38 | 75 | 53.39 | 14.5% | | Dunnett Multiple Comparison Test |
| 07-4926-4741 | Mean Dry Biomass-mg | 19 | 38 | 26.87 | 18.1% | | Dunnett Multiple Comparison Test |

Point Estimate Summary

| Analysis ID | Endpoint | Level | µg/L | 95% LCL | 95% UCL | TU | Method |
|--------------|---------------------|-------|-------|---------|---------|----|------------------------------|
| 04-8272-9535 | 7d Survival Rate | EC5 | 22.01 | 10.58 | 49.41 | | Linear Interpolation (ICPIN) |
| | | EC10 | 38.38 | 17.51 | 43.26 | | |
| | | EC15 | 40.88 | 33.77 | 45.38 | | |
| | | EC20 | 43.38 | 38.19 | 47.65 | | |
| | | EC25 | 45.88 | 41.06 | 50.1 | | |
| | | EC40 | 53.39 | 49.14 | 58.09 | | |
| 06-4915-6096 | Mean Dry Biomass-mg | IC5 | 12.82 | 10.73 | 17.21 | | Linear Interpolation (ICPIN) |
| | | IC10 | 15.64 | 12.51 | 24.11 | | |
| | | IC15 | 18.46 | 13.88 | 35.55 | | |
| | | IC20 | 24.02 | 13.53 | 49.02 | | |
| | | IC25 | 30.24 | 15.5 | 49.09 | | |
| | | IC40 | 43.29 | 28.44 | 53.89 | | |

Test Acceptability

| Analysis ID | Endpoint | Attribute | Test Stat | TAC Limits | Overlap | Decision |
|--------------|---------------------|--------------|-----------|------------|---------|-------------------------------|
| 04-8272-9535 | 7d Survival Rate | Control Resp | 0.9833 | 0.8 - NL | Yes | Passes Acceptability Criteria |
| 13-2406-5401 | 7d Survival Rate | Control Resp | 0.9833 | 0.8 - NL | Yes | Passes Acceptability Criteria |
| 06-4915-6096 | Mean Dry Biomass-mg | Control Resp | 0.3072 | 0.25 - NL | Yes | Passes Acceptability Criteria |
| 07-4926-4741 | Mean Dry Biomass-mg | Control Resp | 0.3072 | 0.25 - NL | Yes | Passes Acceptability Criteria |
| 07-4926-4741 | Mean Dry Biomass-mg | PMSD | 0.1805 | 0.12 - 0.3 | Yes | Passes Acceptability Criteria |

7d Survival Rate Summary

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | %Effect |
|--------|------------------|-------|--------|---------|---------|---------|--------|---------|---------|--------|---------|
| 0 | Negative Control | 4 | 0.9833 | 0.9303 | 1 | 0.9333 | 1 | 0.01667 | 0.03333 | 3.39% | 0.0% |
| 10 | | 4 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0.0% | -1.7% |
| 19 | | 4 | 0.95 | 0.8484 | 1 | 0.8667 | 1 | 0.03191 | 0.06383 | 6.72% | 3.39% |
| 38 | | 4 | 0.9 | 0.763 | 1 | 0.8 | 1 | 0.04303 | 0.08607 | 9.56% | 8.48% |
| 75 | | 4 | 0.1667 | 0 | 0.3698 | 0.06667 | 0.3333 | 0.06383 | 0.1277 | 76.59% | 83.05% |
| 150 | | 4 | 0.1333 | 0 | 0.4206 | 0 | 0.4 | 0.09027 | 0.1805 | 135.4% | 86.44% |

Mean Dry Biomass-mg Summary

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | %Effect |
|--------|------------------|-------|---------|-----------|---------|--------|---------|----------|---------|--------|---------|
| 0 | Negative Control | 4 | 0.3072 | 0.2595 | 0.3549 | 0.2893 | 0.352 | 0.01498 | 0.02997 | 9.76% | 0.0% |
| 10 | | 4 | 0.339 | 0.2951 | 0.3829 | 0.3007 | 0.364 | 0.01379 | 0.02758 | 8.14% | -10.36% |
| 19 | | 4 | 0.2715 | 0.2371 | 0.3059 | 0.2467 | 0.2993 | 0.0108 | 0.0216 | 7.96% | 11.61% |
| 38 | | 4 | 0.2222 | 0.1328 | 0.3115 | 0.16 | 0.2713 | 0.02808 | 0.05616 | 25.28% | 27.67% |
| 75 | | 4 | 0.023 | -0.003914 | 0.04991 | 0.006 | 0.046 | 0.008457 | 0.01691 | 73.54% | 92.51% |
| 150 | | 4 | 0.02517 | -0.01993 | 0.07026 | 0 | 0.06533 | 0.01417 | 0.02834 | 112.6% | 91.81% |

CETIS Summary Report

Report Date: 22 Jan-16 12:29 (p 2 of 2)

Test Code: FML010616 | 15-5420-7482

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

| C-µg/L | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|--------|------------------|---------|---------|---------|---------|
| 0 | Negative Control | 1 | 1 | 0.9333 | 1 |
| 10 | | 1 | 1 | 1 | 1 |
| 19 | | 1 | 1 | 0.8667 | 0.9333 |
| 38 | | 0.8667 | 0.9333 | 0.8 | 1 |
| 75 | | 0.06667 | 0.06667 | 0.3333 | 0.2 |
| 150 | | 0 | 0.4 | 0.06667 | 0.06667 |

Mean Dry Biomass-mg Detail

| C-µg/L | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|--------|------------------|--------|---------|---------|---------|
| 0 | Negative Control | 0.352 | 0.2893 | 0.2927 | 0.2947 |
| 10 | | 0.3387 | 0.3527 | 0.3007 | 0.364 |
| 19 | | 0.2713 | 0.2993 | 0.2467 | 0.2687 |
| 38 | | 0.1893 | 0.2713 | 0.16 | 0.268 |
| 75 | | 0.006 | 0.01667 | 0.046 | 0.02333 |
| 150 | | 0 | 0.06533 | 0.02267 | 0.01267 |

7d Survival Rate Binomials

| C-µg/L | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|--------|------------------|-------|-------|-------|-------|
| 0 | Negative Control | 15/15 | 15/15 | 14/15 | 15/15 |
| 10 | | 15/15 | 15/15 | 15/15 | 15/15 |
| 19 | | 15/15 | 15/15 | 13/15 | 14/15 |
| 38 | | 13/15 | 14/15 | 12/15 | 15/15 |
| 75 | | 1/15 | 1/15 | 5/15 | 3/15 |
| 150 | | 0/15 | 6/15 | 1/15 | 1/15 |

CETIS Analytical Report

Report Date: 22 Jan-16 12:29 (p 1 of 4)
 Test Code: FML010616 | 15-5420-7482

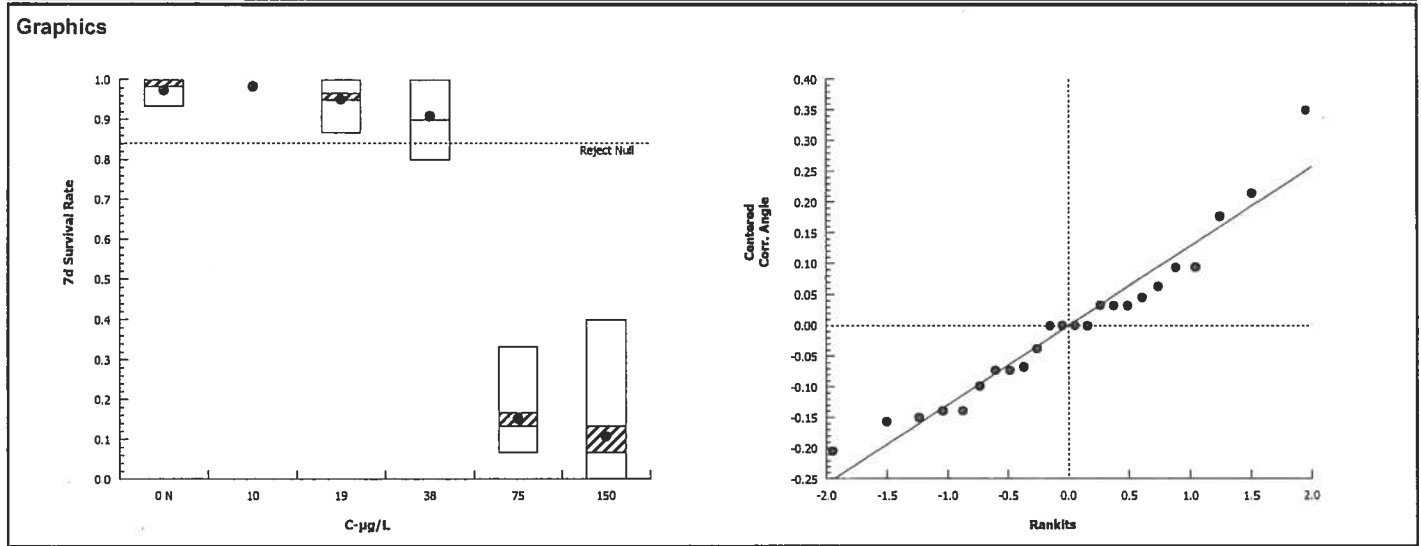
| Fathead Minnow 7-d Larval Survival and Growth Test | | | | | Aquatic Bioassay & Consulting Labs, Inc. | | | | | | |
|--|---------------------------------|--|----------|----------|--|--------------------|---------|------------------------|---------|--------|---------|
| Analysis ID: 13-2406-5401 | | Endpoint: 7d Survival Rate | | | CETIS Version: CETISv1.8.7 | | | | | | |
| Analyzed: 22 Jan-16 12:03 | | Analysis: Parametric-Control vs Treatments | | | Official Results: Yes | | | | | | |
| Data Transform | Zeta | Alt Hyp | Trials | Seed | PMSD | NOEL | LOEL | TOEL | TU | | |
| Angular (Corrected) | NA | C > T | NA | NA | 14.5% | 38 | 75 | 53.39 | | | |
| Dunnett Multiple Comparison Test | | | | | | | | | | | |
| Control | vs C-µg/L | Test Stat | Critical | MSD | DF | P-Value | P-Type | Decision(α:5%) | | | |
| Negative Control | 10 | -0.3197 | 2.407 | 0.248 | 6 | 0.9103 | CDF | Non-Significant Effect | | | |
| | 19 | 0.5931 | 2.407 | 0.248 | 6 | 0.6064 | CDF | Non-Significant Effect | | | |
| | 38 | 1.404 | 2.407 | 0.248 | 6 | 0.2600 | CDF | Non-Significant Effect | | | |
| | 75* | 9.788 | 2.407 | 0.248 | 6 | <0.0001 | CDF | Significant Effect | | | |
| | 150* | 10.43 | 2.407 | 0.248 | 6 | <0.0001 | CDF | Significant Effect | | | |
| ANOVA Table | | | | | | | | | | | |
| Source | Sum Squares | Mean Square | DF | F Stat | P-Value | Decision(α:5%) | | | | | |
| Between | 5.393576 | 1.078715 | 5 | 50.85 | <0.0001 | Significant Effect | | | | | |
| Error | 0.3818108 | 0.02121171 | 18 | | | | | | | | |
| Total | 5.775386 | | 23 | | | | | | | | |
| Distributional Tests | | | | | | | | | | | |
| Attribute | Test | Test Stat | Critical | P-Value | Decision(α:1%) | | | | | | |
| Variances | Mod Levene Equality of Variance | 1.381 | 4.248 | 0.2777 | Equal Variances | | | | | | |
| Variances | Levene Equality of Variance | 3.299 | 4.248 | 0.0274 | Equal Variances | | | | | | |
| Distribution | Shapiro-Wilk W Normality | 0.9486 | 0.884 | 0.2531 | Normal Distribution | | | | | | |
| Distribution | Kolmogorov-Smirnov D | 0.111 | 0.2056 | 0.6409 | Normal Distribution | | | | | | |
| Distribution | D'Agostino Skewness | 1.759 | 2.576 | 0.0785 | Normal Distribution | | | | | | |
| Distribution | D'Agostino Kurtosis | 1.26 | 2.576 | 0.2077 | Normal Distribution | | | | | | |
| Distribution | D'Agostino-Pearson K2 Omnibus | 4.683 | 9.21 | 0.0962 | Normal Distribution | | | | | | |
| Distribution | Anderson-Darling A2 Normality | 0.4413 | 3.878 | 0.2940 | Normal Distribution | | | | | | |
| 7d Survival Rate Summary | | | | | | | | | | | |
| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Median | Min | Max | Std Err | CV% | %Effect |
| 0 | Negative Control | 4 | 0.9833 | 0.9303 | 1 | 1 | 0.9333 | 1 | 0.01667 | 3.39% | 0.0% |
| 10 | | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0.0% | -1.7% |
| 19 | | 4 | 0.95 | 0.8484 | 1 | 0.9667 | 0.8667 | 1 | 0.03191 | 6.72% | 3.39% |
| 38 | | 4 | 0.9 | 0.763 | 1 | 0.9 | 0.8 | 1 | 0.04303 | 9.56% | 8.48% |
| 75 | | 4 | 0.1667 | 0 | 0.3698 | 0.1333 | 0.06667 | 0.3333 | 0.06383 | 76.59% | 83.05% |
| 150 | | 4 | 0.1333 | 0 | 0.4206 | 0.06667 | 0 | 0.4 | 0.09027 | 135.4% | 86.44% |
| Angular (Corrected) Transformed Summary | | | | | | | | | | | |
| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Median | Min | Max | Std Err | CV% | %Effect |
| 0 | Negative Contr | 4 | 1.408 | 1.304 | 1.513 | 1.441 | 1.31 | 1.441 | 0.03292 | 4.68% | 0.0% |
| 10 | | 4 | 1.441 | 1.441 | 1.442 | 1.441 | 1.441 | 1.441 | 0 | 0.0% | -2.34% |
| 19 | | 4 | 1.347 | 1.16 | 1.535 | 1.375 | 1.197 | 1.441 | 0.05894 | 8.75% | 4.34% |
| 38 | | 4 | 1.264 | 1.034 | 1.494 | 1.253 | 1.107 | 1.441 | 0.07224 | 11.43% | 10.27% |
| 75 | | 4 | 0.4004 | 0.1262 | 0.6745 | 0.3624 | 0.2612 | 0.6155 | 0.08614 | 43.03% | 71.57% |
| 150 | | 4 | 0.3341 | -0.05069 | 0.7189 | 0.2612 | 0.1295 | 0.6847 | 0.1209 | 72.38% | 76.28% |
| 7d Survival Rate Detail | | | | | | | | | | | |
| C-µg/L | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | | | | | | |
| 0 | Negative Control | 1 | 1 | 0.9333 | 1 | | | | | | |
| 10 | | 1 | 1 | 1 | 1 | | | | | | |
| 19 | | 1 | 1 | 0.8667 | 0.9333 | | | | | | |
| 38 | | 0.8667 | 0.9333 | 0.8 | 1 | | | | | | |
| 75 | | 0.06667 | 0.06667 | 0.3333 | 0.2 | | | | | | |
| 150 | | 0 | 0.4 | 0.06667 | 0.06667 | | | | | | |

Fathead Minnow 7-d Larval Survival and Growth Test Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 13-2406-5401 Endpoint: 7d Survival Rate CETIS Version: CETISv1.8.7
Analyzed: 22 Jan-16 12:03 Analysis: Parametric-Control vs Treatments Official Results: Yes

| Angular (Corrected) Transformed Detail | | | | | |
|--|------------------|--------|--------|--------|--------|
| C-µg/L | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
| 0 | Negative Control | 1.441 | 1.441 | 1.31 | 1.441 |
| 10 | | 1.441 | 1.441 | 1.441 | 1.441 |
| 19 | | 1.441 | 1.441 | 1.197 | 1.31 |
| 38 | | 1.197 | 1.31 | 1.107 | 1.441 |
| 75 | | 0.2612 | 0.2612 | 0.6155 | 0.4636 |
| 150 | | 0.1295 | 0.6847 | 0.2612 | 0.2612 |

| 7d Survival Rate Binomials | | | | | |
|----------------------------|------------------|-------|-------|-------|-------|
| C-µg/L | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
| 0 | Negative Control | 15/15 | 15/15 | 14/15 | 15/15 |
| 10 | | 15/15 | 15/15 | 15/15 | 15/15 |
| 19 | | 15/15 | 15/15 | 13/15 | 14/15 |
| 38 | | 13/15 | 14/15 | 12/15 | 15/15 |
| 75 | | 1/15 | 1/15 | 5/15 | 3/15 |
| 150 | | 0/15 | 6/15 | 1/15 | 1/15 |

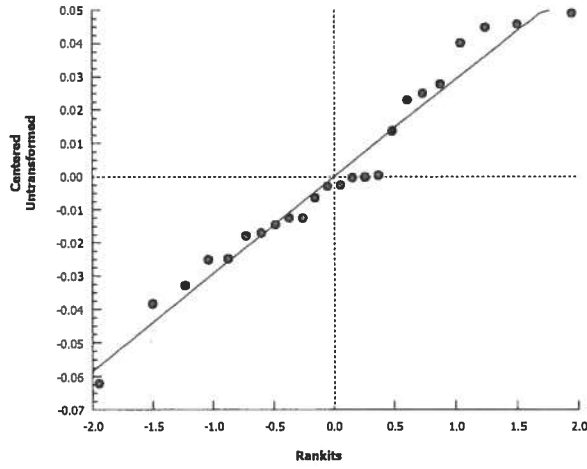
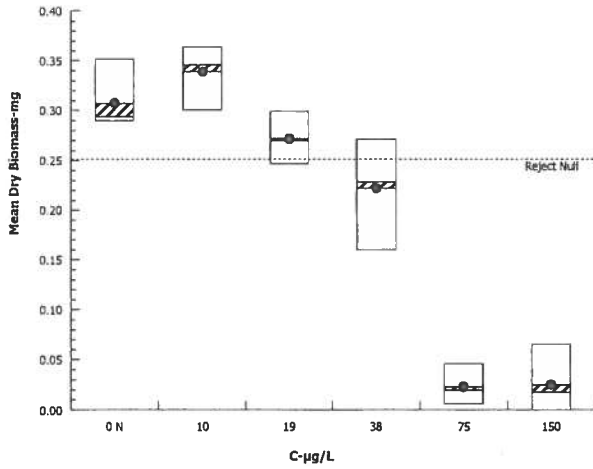


CETIS Analytical Report

Report Date: 22 Jan-16 12:29 (p 4 of 4)
 Test Code: FML010616 | 15-5420-7482

| | | | |
|--|--|--|-----------------------|
| Fathead Minnow 7-d Larval Survival and Growth Test | | Aquatic Bioassay & Consulting Labs, Inc. | |
| Analysis ID: 07-4926-4741 | Endpoint: Mean Dry Biomass-mg | CETIS Version: CETISv1.8.7 | Official Results: Yes |
| Analyzed: 22 Jan-16 12:03 | Analysis: Parametric-Control vs Treatments | | |

Graphics



CETIS Analytical Report

Report Date: 22 Jan-16 12:29 (p 1 of 3)
 Test Code: FML010616 | 15-5420-7482

| | | | | | |
|--|--|----------------------------|--|--|--|
| Fathead Minnow 7-d Larval Survival and Growth Test | | | Aquatic Bioassay & Consulting Labs, Inc. | | |
| Analysis ID: 04-8272-9535 | Endpoint: 7d Survival Rate | CETIS Version: CETISv1.8.7 | | | |
| Analyzed: 22 Jan-16 12:03 | Analysis: Linear Interpolation (ICPIN) | Official Results: Yes | | | |

| Linear Interpolation Options | | | | | |
|------------------------------|-------------|------|-----------|------------|-------------------------|
| X Transform | Y Transform | Seed | Resamples | Exp 95% CL | Method |
| Linear | Linear | 0 | 280 | Yes | Two-Point Interpolation |

| Point Estimates | | | |
|-----------------|-------|---------|---------|
| Level | µg/L | 95% LCL | 95% UCL |
| EC5 | 22.01 | 10.58 | 49.41 |
| EC10 | 38.38 | 17.51 | 43.26 |
| EC15 | 40.88 | 33.77 | 45.38 |
| EC20 | 43.38 | 38.19 | 47.65 |
| EC25 | 45.88 | 41.06 | 50.1 |
| EC40 | 53.39 | 49.14 | 58.09 |
| EC50 | 58.39 | 54.31 | 64.09 |

| 7d Survival Rate Summary | | | Calculated Variate(A/B) | | | | | | | | | |
|--------------------------|------------------|-------|-------------------------|---------|--------|---------|---------|--------|---------|----|----|--|
| C-µg/L | Control Type | Count | Mean | Min | Max | Std Err | Std Dev | CV% | %Effect | A | B | |
| 0 | Negative Control | 4 | 0.9833 | 0.9333 | 1 | 0.01667 | 0.03333 | 3.39% | 0.0% | 59 | 60 | |
| 10 | | 4 | 1 | 1 | 1 | 0 | 0 | 0.0% | -1.7% | 60 | 60 | |
| 19 | | 4 | 0.95 | 0.8667 | 1 | 0.03191 | 0.06383 | 6.72% | 3.39% | 57 | 60 | |
| 38 | | 4 | 0.9 | 0.8 | 1 | 0.04303 | 0.08607 | 9.56% | 8.48% | 54 | 60 | |
| 75 | | 4 | 0.1667 | 0.06667 | 0.3333 | 0.06383 | 0.1277 | 76.59% | 83.05% | 10 | 60 | |
| 150 | | 4 | 0.1333 | 0 | 0.4 | 0.09027 | 0.1805 | 135.4% | 86.44% | 8 | 60 | |

| 7d Survival Rate Detail | | | | | |
|-------------------------|------------------|---------|---------|---------|---------|
| C-µg/L | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
| 0 | Negative Control | 1 | 1 | 0.9333 | 1 |
| 10 | | 1 | 1 | 1 | 1 |
| 19 | | 1 | 1 | 0.8667 | 0.9333 |
| 38 | | 0.8667 | 0.9333 | 0.8 | 1 |
| 75 | | 0.06667 | 0.06667 | 0.3333 | 0.2 |
| 150 | | 0 | 0.4 | 0.06667 | 0.06667 |

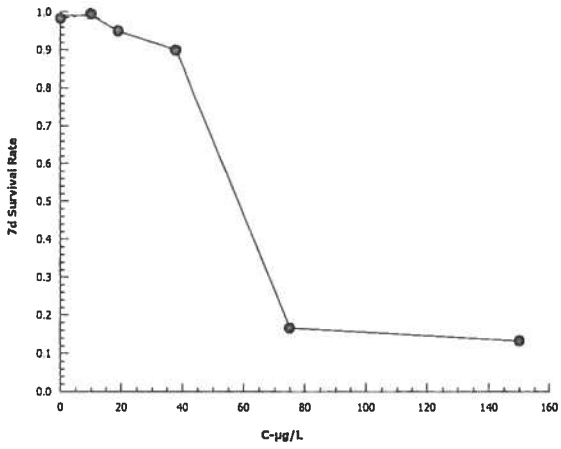
| 7d Survival Rate Binomials | | | | | |
|----------------------------|------------------|-------|-------|-------|-------|
| C-µg/L | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
| 0 | Negative Control | 15/15 | 15/15 | 14/15 | 15/15 |
| 10 | | 15/15 | 15/15 | 15/15 | 15/15 |
| 19 | | 15/15 | 15/15 | 13/15 | 14/15 |
| 38 | | 13/15 | 14/15 | 12/15 | 15/15 |
| 75 | | 1/15 | 1/15 | 5/15 | 3/15 |
| 150 | | 0/15 | 6/15 | 1/15 | 1/15 |

CETIS Analytical Report

Report Date: 22 Jan-16 12:29 (p 2 of 3)
Test Code: FML010616 | 15-5420-7482

| | | |
|--|--|--|
| Fathead Minnow 7-d Larval Survival and Growth Test | | Aquatic Bioassay & Consulting Labs, Inc. |
| Analysis ID: 04-8272-9535 | Endpoint: 7d Survival Rate | CETIS Version: CETISv1.8.7 |
| Analyzed: 22 Jan-16 12:03 | Analysis: Linear Interpolation (ICPIN) | Official Results: Yes |

Graphics



CETIS Analytical Report

Report Date: 22 Jan-16 12:29 (p 3 of 3)
 Test Code: FML010616 | 15-5420-7482

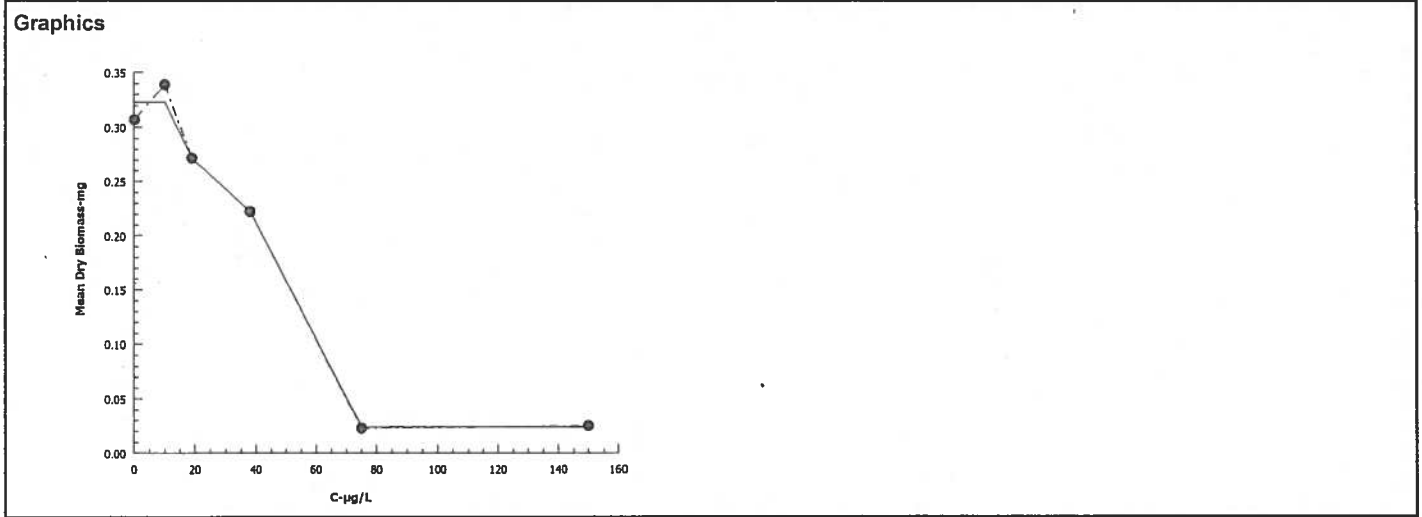
| | | | |
|---|--|---|--|
| Fathead Minnow 7-d Larval Survival and Growth Test | | Aquatic Bioassay & Consulting Labs, Inc. | |
| Analysis ID: 06-4915-6096 | Endpoint: Mean Dry Biomass-mg | CETIS Version: CETISv1.8.7 | |
| Analyzed: 22-Jan-16 12:03 | Analysis: Linear Interpolation (ICPIN) | Official Results: Yes | |

| Linear Interpolation Options | | | | | |
|------------------------------|-------------|---------|-----------|------------|-------------------------|
| X Transform | Y Transform | Seed | Resamples | Exp 95% CL | Method |
| Linear | Linear | 1134893 | 280 | Yes | Two-Point Interpolation |

| Point Estimates | | | |
|-----------------|-------|---------|---------|
| Level | µg/L | 95% LCL | 95% UCL |
| IC5 | 12.82 | 10.73 | 17.21 |
| IC10 | 15.64 | 12.51 | 24.11 |
| IC15 | 18.46 | 13.88 | 35.55 |
| IC20 | 24.02 | 13.53 | 49.02 |
| IC25 | 30.24 | 15.5 | 49.09 |
| IC40 | 43.29 | 28.44 | 53.89 |
| IC50 | 49.32 | 35.59 | 58.4 |

| Mean Dry Biomass-mg Summary | | | Calculated Variate | | | | | | |
|-----------------------------|------------------|-------|--------------------|--------|---------|----------|---------|--------|---------|
| C-µg/L | Control Type | Count | Mean | Min | Max | Std Err | Std Dev | CV% | %Effect |
| 0 | Negative Control | 4 | 0.3072 | 0.2893 | 0.352 | 0.01498 | 0.02997 | 9.76% | 0.0% |
| 10 | | 4 | 0.339 | 0.3007 | 0.364 | 0.01379 | 0.02758 | 8.14% | -10.36% |
| 19 | | 4 | 0.2715 | 0.2467 | 0.2993 | 0.0108 | 0.0216 | 7.96% | 11.61% |
| 38 | | 4 | 0.2222 | 0.16 | 0.2713 | 0.02808 | 0.05616 | 25.28% | 27.67% |
| 75 | | 4 | 0.023 | 0.006 | 0.046 | 0.008457 | 0.01691 | 73.54% | 92.51% |
| 150 | | 4 | 0.02517 | 0 | 0.06533 | 0.01417 | 0.02834 | 112.6% | 91.81% |

| Mean Dry Biomass-mg Detail | | | | | |
|----------------------------|------------------|--------|---------|---------|---------|
| C-µg/L | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
| 0 | Negative Control | 0.352 | 0.2893 | 0.2927 | 0.2947 |
| 10 | | 0.3387 | 0.3527 | 0.3007 | 0.364 |
| 19 | | 0.2713 | 0.2993 | 0.2467 | 0.2687 |
| 38 | | 0.1893 | 0.2713 | 0.16 | 0.268 |
| 75 | | 0.006 | 0.01667 | 0.046 | 0.02333 |
| 150 | | 0 | 0.06533 | 0.02267 | 0.01267 |



CETIS Measurement Report

Report Date: 22 Jan-16 12:29 (p 1 of 2)
 Test Code: FML010616 | 15-5420-7482

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | |
|------------------------------|-----------------------------------|---------------------------|
| Batch ID: 05-3787-4752 | Test Type: Growth-Survival (7d) | Analyst: |
| Start Date: 06 Jan-16 13:50 | Protocol: EPA/821/R-02-013 (2002) | Diluent: Laboratory Water |
| Ending Date: 13 Jan-16 11:50 | Species: Pimephales promelas | Brine: Not Applicable |
| Duration: 6d 22h | Source: Aquatic Biosystems, CO | Age: |
| Sample ID: 12-7379-3699 | Code: FML010616 | Client: ABC Labs |
| Sample Date: 06 Jan-16 13:50 | Material: Copper chloride | Project: REF TOX |
| Receive Date: | Source: Reference Toxicant | |
| Sample Age: NA | Station: REF TOX | |

Alkalinity (CaCO3)-mg/L

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 64.13 | 61.25 | 67 | 60 | 68 | 1.217 | 3.441 | 5.37% | 0 |
| 150 | | 8 | 74 | 74 | 74 | 74 | 74 | 0 | 0 | 0.0% | 0 |
| Overall | | 16 | 69.06 | | | 60 | 74 | | | | 0 (0%) |

Conductivity-µmhos

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 328.4 | 326 | 330.8 | 323 | 332 | 1.017 | 2.875 | 0.88% | 0 |
| 10 | | 8 | 329 | 314.4 | 343.6 | 295 | 350 | 6.159 | 17.42 | 5.3% | 0 |
| 19 | | 8 | 322.8 | 315.4 | 330.1 | 308 | 332 | 3.098 | 8.763 | 2.72% | 0 |
| 38 | | 8 | 323.1 | 317.2 | 329 | 307 | 328 | 2.496 | 7.06 | 2.19% | 0 |
| 75 | | 8 | 318 | 302.1 | 333.9 | 271 | 327 | 6.743 | 19.07 | 6.0% | 0 |
| 150 | | 8 | 324.8 | 323.4 | 326.1 | 322 | 327 | 0.559 | 1.581 | 0.49% | 0 |
| Overall | | 48 | 324.3 | | | 271 | 350 | | | | 0 (0%) |

Dissolved Oxygen-mg/L

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 8.1 | 7.686 | 8.514 | 7.7 | 9.2 | 0.1753 | 0.4957 | 6.12% | 0 |
| 10 | | 8 | 8.5 | 7.928 | 9.072 | 7.8 | 9.7 | 0.242 | 0.6845 | 8.05% | 0 |
| 19 | | 8 | 8.55 | 7.955 | 9.145 | 7.7 | 9.7 | 0.2514 | 0.7111 | 8.32% | 0 |
| 38 | | 8 | 8.6 | 8.007 | 9.193 | 7.7 | 9.8 | 0.2507 | 0.7091 | 8.25% | 0 |
| 75 | | 8 | 8.588 | 8.006 | 9.169 | 7.7 | 9.8 | 0.246 | 0.6958 | 8.1% | 0 |
| 150 | | 8 | 8.563 | 8.017 | 9.108 | 7.7 | 9.6 | 0.2306 | 0.6523 | 7.62% | 0 |
| Overall | | 48 | 8.483 | | | 7.7 | 9.8 | | | | 0 (0%) |

Hardness (CaCO3)-mg/L

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 92.13 | 88.68 | 95.57 | 88 | 97 | 1.457 | 4.121 | 4.47% | 0 |
| 150 | | 8 | 99 | 99 | 99 | 99 | 99 | 0 | 0 | 0.0% | 0 |
| Overall | | 16 | 95.56 | | | 88 | 99 | | | | 0 (0%) |

pH-Units

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 8.025 | 7.803 | 8.247 | 7.6 | 8.3 | 0.09402 | 0.2659 | 3.31% | 0 |
| 10 | | 8 | 7.725 | 7.526 | 7.924 | 7.4 | 8 | 0.08399 | 0.2375 | 3.08% | 0 |
| 19 | | 8 | 7.763 | 7.608 | 7.917 | 7.5 | 8 | 0.06529 | 0.1847 | 2.38% | 0 |
| 38 | | 8 | 7.788 | 7.643 | 7.932 | 7.5 | 8 | 0.06105 | 0.1727 | 2.22% | 0 |
| 75 | | 8 | 7.775 | 7.643 | 7.907 | 7.5 | 7.9 | 0.0559 | 0.1581 | 2.03% | 0 |
| 150 | | 8 | 7.763 | 7.637 | 7.888 | 7.5 | 7.9 | 0.05324 | 0.1506 | 1.94% | 0 |
| Overall | | 48 | 7.806 | | | 7.4 | 8.3 | | | | 0 (0%) |

CETIS Measurement Report

Report Date: 22 Jan-16 12:29 (p 2 of 2)
 Test Code: FML010616 | 15-5420-7482

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|------|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 24.08 | 23.9 | 24.25 | 24 | 24.6 | 0.075 | 0.2121 | 0.88% | 0 |
| 10 | | 8 | 24.1 | 23.86 | 24.34 | 24 | 24.8 | 0.1 | 0.2828 | 1.17% | 0 |
| 19 | | 8 | 24.1 | 23.9 | 24.3 | 24 | 24.7 | 0.0866 | 0.2449 | 1.02% | 0 |
| 38 | | 8 | 24.08 | 23.93 | 24.22 | 24 | 24.5 | 0.06196 | 0.1752 | 0.73% | 0 |
| 75 | | 8 | 24.01 | 23.98 | 24.04 | 24 | 24.1 | 0.01249 | 0.03531 | 0.15% | 0 |
| 150 | | 8 | 24.04 | 23.99 | 24.08 | 24 | 24.1 | 0.01827 | 0.05167 | 0.22% | 0 |
| Overall | | 48 | 24.07 | | | 24 | 24.8 | | | | 0 (0%) |

Alkalinity (CaCO3)-mg/L

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------|----------------|----|----|----|----|----|----|----|----|
| 0 | Negative Contr | 68 | 68 | 68 | 63 | 63 | 63 | 60 | 60 |
| 150 | | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 |

Conductivity-µmhos

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 328 | 332 | 323 | 328 | 330 | 326 | 329 | 331 |
| 10 | | 321 | 295 | 350 | 348 | 338 | 327 | 325 | 328 |
| 19 | | 322 | 308 | 325 | 330 | 332 | 326 | 311 | 328 |
| 38 | | 320 | 307 | 326 | 327 | 328 | 326 | 323 | 328 |
| 75 | | 321 | 271 | 325 | 326 | 325 | 325 | 324 | 327 |
| 150 | | 322 | 325 | 323 | 325 | 325 | 326 | 325 | 327 |

Dissolved Oxygen-mg/L

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 7.8 | 8.4 | 7.7 | 7.8 | 7.9 | 7.9 | 8.1 | 9.2 |
| 10 | | 8.6 | 9.7 | 7.9 | 7.8 | 7.8 | 8.5 | 9.2 | 8.5 |
| 19 | | 8.6 | 9.7 | 7.8 | 7.9 | 7.7 | 8.8 | 9.2 | 8.7 |
| 38 | | 8.7 | 9.8 | 8 | 7.9 | 7.7 | 8.8 | 9.2 | 8.7 |
| 75 | | 8.6 | 9.8 | 8.1 | 7.9 | 7.7 | 8.6 | 9.2 | 8.8 |
| 150 | | 8.7 | 9.6 | 8.2 | 7.8 | 7.7 | 8.7 | 9.2 | 8.6 |

Hardness (CaCO3)-mg/L

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------|----------------|----|----|----|----|----|----|----|----|
| 0 | Negative Contr | 97 | 97 | 97 | 90 | 90 | 90 | 88 | 88 |
| 150 | | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 |

pH-Units

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 8.1 | 7.9 | 7.7 | 8.3 | 8.1 | 8.2 | 7.6 | 8.3 |
| 10 | | 7.4 | 7.4 | 7.9 | 7.9 | 7.9 | 8 | 7.6 | 7.7 |
| 19 | | 7.5 | 7.6 | 7.9 | 7.9 | 7.9 | 8 | 7.6 | 7.7 |
| 38 | | 7.5 | 7.7 | 7.9 | 8 | 7.9 | 7.9 | 7.6 | 7.8 |
| 75 | | 7.5 | 7.7 | 7.9 | 7.9 | 7.9 | 7.9 | 7.6 | 7.8 |
| 150 | | 7.5 | 7.7 | 7.8 | 7.9 | 7.9 | 7.9 | 7.6 | 7.8 |

Temperature-°C

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------|----------------|----|----|----|----|------|------|------|----|
| 0 | Negative Contr | 24 | 24 | 24 | 24 | 24 | 24 | 24.6 | 24 |
| 10 | | 24 | 24 | 24 | 24 | 24 | 24 | 24.8 | 24 |
| 19 | | 24 | 24 | 24 | 24 | 24.1 | 24 | 24.7 | 24 |
| 38 | | 24 | 24 | 24 | 24 | 24.1 | 24 | 24.5 | 24 |
| 75 | | 24 | 24 | 24 | 24 | 24.1 | 24 | 24 | 24 |
| 150 | | 24 | 24 | 24 | 24 | 24.1 | 24.1 | 24.1 | 24 |



CHRONIC CERIODAPHNIA SURVIVAL AND REPRODUCTION BIOASSAY

DATE: 5 January- 2016

STANDARD TOXICANT: Copper Chloride

ENDPOINT: SURVIVAL

NOEC = 10.00 ug/l

EC25 = 14.29 ug/l

EC50 = 21.43 ug/l

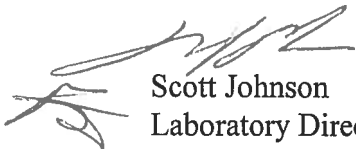
ENDPOINT: REPRODUCTION

NOEC = 10.00 ug/l

IC25 = 10.55 ug/l

IC50 = 17.36 ug/l

Yours very truly,



Scott Johnson
Laboratory Director

CETIS Analytical Report

Report Date: 21 Jan-16 14:40 (p 1 of 2)
 Test Code: CER010516 | 16-9645-7640

Ceriodaphnia 7-d Survival and Reproduction Test **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID: 06-7842-3993 Endpoint: Reproduction CETIS Version: CETISv1.8.7
 Analyzed: 13 Jan-16 15:05 Analysis: Nonparametric-Control vs Treatments Official Results: Yes

| Data Transform | Zeta | Alt Hyp | Trials | Seed | PMSD | NOEL | LOEL | TOEL | TU |
|----------------|------|---------|--------|------|-------|------|------|-------|----|
| Untransformed | NA | C > T | NA | NA | 21.6% | 10 | 30 | 17.32 | |

Steel Many-One Rank Sum Test

| Control | vs | C-µg/L | Test Stat | Critical | Ties | DF | P-Value | P-Type | Decision(α:5%) |
|------------------|----|--------|-----------|----------|------|----|---------|--------|------------------------|
| Negative Control | | 3 | 120.5 | 76 | 1 | 18 | 0.9871 | Asymp | Non-Significant Effect |
| | | 5 | 123.5 | 76 | 3 | 18 | 0.9938 | Asymp | Non-Significant Effect |
| | | 10 | 82.5 | 76 | 3 | 18 | 0.1302 | Asymp | Non-Significant Effect |
| | | 30* | 55 | 76 | 0 | 18 | 0.0003 | Asymp | Significant Effect |

ANOVA Table

| Source | Sum Squares | Mean Square | DF | F Stat | P-Value | Decision(α:5%) |
|---------|-------------|-------------|----|--------|---------|--------------------|
| Between | 7897.6 | 1974.4 | 4 | 43.72 | <0.0001 | Significant Effect |
| Error | 2032.4 | 45.16444 | 45 | | | |
| Total | 9930 | | 49 | | | |

Distributional Tests

| Attribute | Test | Test Stat | Critical | P-Value | Decision(α:1%) |
|--------------|---------------------------------|-----------|----------|---------|---------------------|
| Variances | Bartlett Equality of Variance | 22.73 | 13.28 | 0.0001 | Unequal Variances |
| Variances | Mod Levene Equality of Variance | 4.536 | 3.767 | 0.0037 | Unequal Variances |
| Variances | Levene Equality of Variance | 4.477 | 3.767 | 0.0039 | Unequal Variances |
| Distribution | Shapiro-Wilk W Normality | 0.954 | 0.9367 | 0.0500 | Normal Distribution |
| Distribution | Kolmogorov-Smirnov D | 0.1222 | 0.1453 | 0.0598 | Normal Distribution |
| Distribution | D'Agostino Skewness | 1.716 | 2.576 | 0.0862 | Normal Distribution |
| Distribution | D'Agostino Kurtosis | 1.269 | 2.576 | 0.2046 | Normal Distribution |
| Distribution | D'Agostino-Pearson K2 Omnibus | 4.553 | 9.21 | 0.1026 | Normal Distribution |
| Distribution | Anderson-Darling A2 Normality | 0.8851 | 3.878 | 0.0235 | Normal Distribution |

Reproduction Summary

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Median | Min | Max | Std Err | CV% | %Effect |
|--------|------------------|-------|------|---------|---------|--------|-----|-----|---------|--------|---------|
| 0 | Negative Control | 10 | 30.9 | 28.55 | 33.25 | 29.5 | 27 | 36 | 1.038 | 10.62% | 0.0% |
| 3 | | 10 | 33.1 | 27.32 | 38.88 | 34 | 15 | 41 | 2.554 | 24.4% | -7.12% |
| 5 | | 10 | 36.1 | 29.41 | 42.79 | 37.5 | 22 | 48 | 2.957 | 25.9% | -16.83% |
| 10 | | 10 | 25.7 | 20.22 | 31.18 | 25 | 13 | 39 | 2.422 | 29.81% | 16.83% |
| 30 | | 10 | 1.2 | -0.1822 | 2.582 | 0 | 0 | 4 | 0.611 | 161.0% | 96.12% |
| 50 | | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 100.0% |

Reproduction Detail

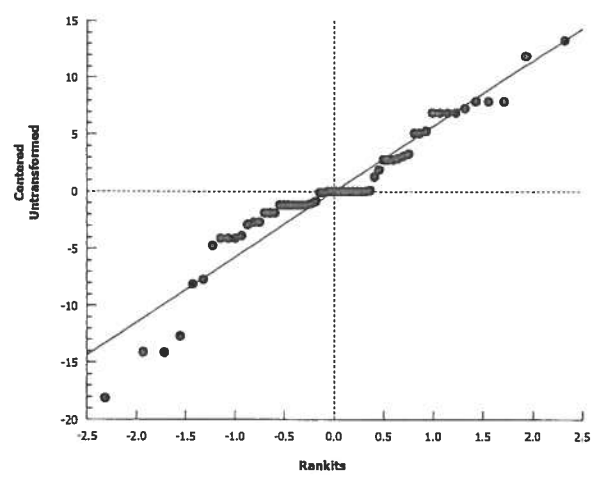
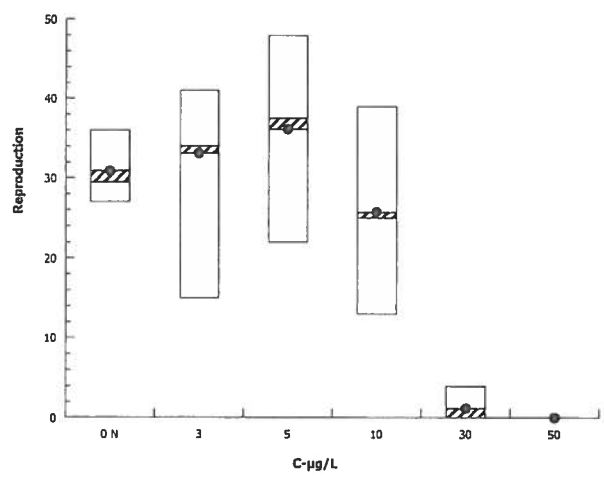
| C-µg/L | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | Rep 6 | Rep 7 | Rep 8 | Rep 9 | Rep 10 |
|--------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0 | Negative Control | 29 | 29 | 36 | 36 | 28 | 27 | 31 | 30 | 34 | 29 |
| 3 | | 29 | 40 | 33 | 29 | 29 | 40 | 41 | 15 | 40 | 35 |
| 5 | | 22 | 44 | 44 | 43 | 36 | 22 | 39 | 35 | 48 | 28 |
| 10 | | 23 | 39 | 27 | 18 | 33 | 21 | 29 | 31 | 23 | 13 |
| 30 | | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 4 | 0 | 0 |
| 50 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

CETIS Analytical Report

Report Date: 21 Jan-16 14:40 (p 2 of 2)
Test Code: CER010516 | 16-9645-7640

| | | | |
|---|---|--|-----------------------|
| Ceriodaphnia 7-d Survival and Reproduction Test | | Aquatic Bioassay & Consulting Labs, Inc. | |
| Analysis ID: 06-7842-3993 | Endpoint: Reproduction | CETIS Version: CETISv1.8.7 | Official Results: Yes |
| Analyzed: 13 Jan-16 15:05 | Analysis: Nonparametric-Control vs Treatments | | |

Graphics



CETIS Analytical Report

Report Date: 21 Jan-16 14:40 (p 2 of 3)

Test Code: CER010516 | 16-9645-7640

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 15-4141-4292

Endpoint: 7d Survival Rate

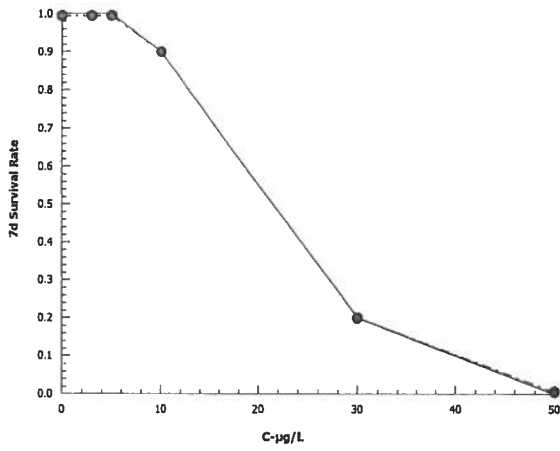
CETIS Version: CETISv1.8.7

Analyzed: 13 Jan-16 15:05

Analysis: Linear Interpolation (ICPIN)

Official Results: Yes

Graphics



CETIS Analytical Report

Report Date: 21 Jan-16 14:40 (p 3 of 3)
 Test Code: CER010516 | 16-9645-7640

| | | | |
|--|--|---|--|
| Ceriodaphnia 7-d Survival and Reproduction Test | | Aquatic Bioassay & Consulting Labs, Inc. | |
| Analysis ID: 12-5136-4443 | Endpoint: Reproduction | CETIS Version: CETISv1.8.7 | |
| Analyzed: 13 Jan-16 15:05 | Analysis: Linear Interpolation (ICPIN) | Official Results: Yes | |

| Linear Interpolation Options | | | | | |
|------------------------------|-------------|---------|-----------|------------|-------------------------|
| X Transform | Y Transform | Seed | Resamples | Exp 95% CL | Method |
| Linear | Linear | 1986062 | 280 | Yes | Two-Point Interpolation |

| Point Estimates | | | |
|-----------------|-------|---------|---------|
| Level | µg/L | 95% LCL | 95% UCL |
| IC5 | 6.088 | 4.573 | 7.629 |
| IC10 | 7.176 | 6.184 | 10.39 |
| IC15 | 8.264 | 6.843 | 11.51 |
| IC20 | 9.352 | 7.578 | 12.63 |
| IC25 | 10.55 | 8.223 | 13.75 |
| IC40 | 14.64 | 10.55 | 17.15 |
| IC50 | 17.36 | 14.14 | 19.36 |

| Reproduction Summary | | | Calculated Variate | | | | | | |
|----------------------|------------------|-------|--------------------|-----|-----|---------|---------|--------|---------|
| C-µg/L | Control Type | Count | Mean | Min | Max | Std Err | Std Dev | CV% | %Effect |
| 0 | Negative Control | 10 | 30.9 | 27 | 36 | 1.038 | 3.281 | 10.62% | 0.0% |
| 3 | | 10 | 33.1 | 15 | 41 | 2.554 | 8.075 | 24.4% | -7.12% |
| 5 | | 10 | 36.1 | 22 | 48 | 2.957 | 9.351 | 25.9% | -16.83% |
| 10 | | 10 | 25.7 | 13 | 39 | 2.422 | 7.66 | 29.81% | 16.83% |
| 30 | | 10 | 1.2 | 0 | 4 | 0.611 | 1.932 | 161.0% | 96.12% |
| 50 | | 10 | 0 | 0 | 0 | 0 | 0 | | 100.0% |

| Reproduction Detail | | | | | | | | | | | |
|---------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| C-µg/L | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | Rep 6 | Rep 7 | Rep 8 | Rep 9 | Rep 10 |
| 0 | Negative Control | 29 | 29 | 36 | 36 | 28 | 27 | 31 | 30 | 34 | 29 |
| 3 | | 29 | 40 | 33 | 29 | 29 | 40 | 41 | 15 | 40 | 35 |
| 5 | | 22 | 44 | 44 | 43 | 36 | 22 | 39 | 35 | 48 | 28 |
| 10 | | 23 | 39 | 27 | 18 | 33 | 21 | 29 | 31 | 23 | 13 |
| 30 | | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 4 | 0 | 0 |
| 50 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



CETIS Measurement Report

Report Date: 21 Jan-16 14:40 (p 2 of 2)
 Test Code: CER010516 | 16-9645-7640

Ceriodaphnia 7-d Survival and Reproduction Test

Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|------|---------|---------|-------|----------|
| 0 | Negative Contr | 8 | 24.2 | 23.96 | 24.44 | 24 | 24.7 | 0.1018 | 0.2878 | 1.19% | 0 |
| 3 | | 8 | 24.19 | 23.97 | 24.41 | 24 | 24.6 | 0.09342 | 0.2642 | 1.09% | 0 |
| 5 | | 8 | 24.14 | 23.96 | 24.31 | 24 | 24.6 | 0.07303 | 0.2066 | 0.86% | 0 |
| 10 | | 8 | 24.16 | 24.01 | 24.31 | 24 | 24.5 | 0.06249 | 0.1768 | 0.73% | 0 |
| 30 | | 8 | 24.13 | 23.95 | 24.3 | 24 | 24.6 | 0.07257 | 0.2053 | 0.85% | 0 |
| 50 | | 5 | 24.16 | 23.85 | 24.47 | 24 | 24.6 | 0.1122 | 0.251 | 1.04% | 0 |
| Overall | | 45 | 24.16 | | | 24 | 24.7 | | | | 0 (0%) |

Alkalinity (CaCO3)-mg/L

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------|----------------|----|----|----|----|----|----|----|----|
| 0 | Negative Contr | 68 | 68 | 68 | 68 | 63 | 63 | 63 | 63 |
| 50 | | 60 | 60 | 60 | 60 | 60 | | | |

Conductivity-µmhos

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 328 | 328 | 332 | 323 | 328 | 330 | 326 | 333 |
| 3 | | 310 | 310 | 334 | 310 | 315 | 312 | 331 | 338 |
| 5 | | 309 | 308 | 314 | 309 | 310 | 310 | 322 | 325 |
| 10 | | 308 | 308 | 311 | 309 | 308 | 309 | 320 | 322 |
| 30 | | 292 | 291 | 298 | 310 | 309 | 312 | 321 | 296 |
| 50 | | 310 | 310 | 310 | 310 | 315 | | | |

Dissolved Oxygen-mg/L

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 7.7 | 7.8 | 8.4 | 7.7 | 7.8 | 7.9 | 7.9 | 8.2 |
| 3 | | 8.2 | 8.4 | 9.5 | 8.3 | 7.7 | 7.8 | 8.3 | 8.1 |
| 5 | | 8.4 | 8.4 | 8 | 8.7 | 7.9 | 7.8 | 8.3 | 8.5 |
| 10 | | 8.3 | 8.5 | 8.6 | 8.4 | 7.8 | 7.7 | 8.3 | 8.7 |
| 30 | | 8.3 | 8.6 | 8.6 | 8.2 | 7.8 | 7.7 | 8.3 | 8.8 |
| 50 | | 8.1 | 8.5 | 8.7 | 8.6 | 8 | | | |

Hardness (CaCO3)-mg/L

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------|----------------|----|----|----|----|----|----|----|----|
| 0 | Negative Contr | 97 | 97 | 97 | 97 | 90 | 90 | 90 | 90 |
| 50 | | 84 | 84 | 84 | 84 | 84 | | | |

pH-Units

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 8 | 8.1 | 7.9 | 7.7 | 8.3 | 8.1 | 8.2 | 7.5 |
| 3 | | 7.9 | 8 | 8.2 | 7.8 | 7.9 | 7.9 | 8.1 | 8.2 |
| 5 | | 7.9 | 7.9 | 8.2 | 7.7 | 7.9 | 7.9 | 8 | 8.2 |
| 10 | | 7.8 | 7.8 | 8.1 | 7.7 | 8 | 7.9 | 8 | 8.2 |
| 30 | | 7.8 | 7.7 | 8.1 | 7.8 | 8.1 | 7.9 | 8 | 8.1 |
| 50 | | 7.8 | 7.7 | 8 | 7.8 | 8.1 | | | |

Temperature-°C

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------|----------------|------|------|------|------|------|----|----|----|
| 0 | Negative Contr | 24.6 | 24.1 | 24.7 | 24.2 | 24 | 24 | 24 | 24 |
| 3 | | 24.6 | 24.1 | 24.6 | 24.2 | 24 | 24 | 24 | 24 |
| 5 | | 24 | 24.2 | 24.6 | 24.2 | 24.1 | 24 | 24 | 24 |
| 10 | | 24.3 | 24.2 | 24.5 | 24.2 | 24.1 | 24 | 24 | 24 |
| 30 | | 24 | 24.1 | 24.6 | 24.2 | 24.1 | 24 | 24 | 24 |
| 50 | | 24 | 24.1 | 24.6 | 24.1 | 24 | | | |



CHRONIC SELENASTRUM GROWTH BIOASSAY

DATE: 7 January - 2016

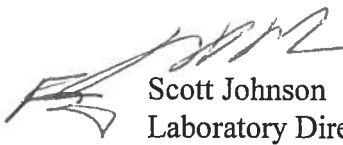
STANDARD TOXICANT: Cadmium Chloride

NOEC = 80.00 ug/l

IC25 = 104.90 ug/l

IC50 = 156.20 ug/l

Yours very truly,



Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 13 Jan-16 15:51 (p 1 of 1)
 Test Code: SEL010716 | 15-2352-3661

Selenastrum Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | |
|------------------------------|------------------------------------|---------------------------|
| Batch ID: 03-4998-4998 | Test Type: Cell Growth | Analyst: |
| Start Date: 07 Jan-16 13:09 | Protocol: EPA/821/R-02-013 (2002) | Diluent: Laboratory Water |
| Ending Date: 11 Jan-16 14:00 | Species: Selenastrum capricornutum | Brine: Not Applicable |
| Duration: 4d 1h | Source: Aquatic Biosystems, CO | Age: |
| Sample ID: 00-2681-6804 | Code: SEL010716 | Client: Internal Lab |
| Sample Date: 07 Jan-16 13:09 | Material: Cadmium chloride | Project: |
| Receive Date: | Source: Reference Toxicant | |
| Sample Age: NA | Station: REF TOX | |

Comparison Summary

| Analysis ID | Endpoint | NOEL | LOEL | TOEL | PMSD | TU | Method |
|--------------|--------------|------|------|-------|-------|----|----------------------------------|
| 14-1417-3399 | Cell Density | 80 | 140 | 105.8 | 12.0% | | Dunnett Multiple Comparison Test |

Point Estimate Summary

| Analysis ID | Endpoint | Level | µg/L | 95% LCL | 95% UCL | TU | Method |
|--------------|--------------|-------|-------|---------|---------|----|------------------------------|
| 18-5250-6959 | Cell Density | IC5 | 55.52 | 25.19 | 82.51 | | Linear Interpolation (ICPIN) |
| | | IC10 | 71.03 | 53.7 | 96.08 | | |
| | | IC15 | 84.34 | 65.16 | 101.3 | | |
| | | IC20 | 94.62 | 76.74 | 108.8 | | |
| | | IC25 | 104.9 | 89.64 | 117.6 | | |
| | | IC40 | 135.7 | 124.5 | 149.1 | | |
| | | IC50 | 156.2 | 144.8 | 165 | | |

Test Acceptability

| Analysis ID | Endpoint | Attribute | Test Stat | TAC Limits | Overlap | Decision |
|--------------|--------------|--------------|-----------|--------------|---------|-------------------------------|
| 14-1417-3399 | Cell Density | Control CV | 0.01484 | NL - 0.2 | Yes | Passes Acceptability Criteria |
| 18-5250-6959 | Cell Density | Control CV | 0.01484 | NL - 0.2 | Yes | Passes Acceptability Criteria |
| 14-1417-3399 | Cell Density | Control Resp | 1.09E+6 | 1.00E+6 - NL | Yes | Passes Acceptability Criteria |
| 18-5250-6959 | Cell Density | Control Resp | 1.09E+6 | 1.00E+6 - NL | Yes | Passes Acceptability Criteria |
| 14-1417-3399 | Cell Density | PMSD | 0.1205 | 0.091 - 0.29 | Yes | Passes Acceptability Criteria |

Cell Density Summary

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | %Effect |
|--------|------------------|-------|----------|----------|----------|----------|----------|----------|----------|-------|---------|
| 0 | Negative Control | 4 | 1.088E+6 | 1.062E+6 | 1.114E+6 | 1.064E+6 | 1.099E+6 | 8.073E+3 | 1.615E+4 | 1.48% | 0.0% |
| 20 | | 4 | 1.395E+6 | 1.258E+6 | 1.531E+6 | 1.310E+6 | 1.480E+6 | 4.283E+4 | 8.566E+4 | 6.14% | -28.19% |
| 40 | | 4 | 1.288E+6 | 1.091E+6 | 1.484E+6 | 1.140E+6 | 1.397E+6 | 6.162E+4 | 1.232E+5 | 9.57% | -18.34% |
| 80 | | 4 | 1.095E+6 | 9.569E+5 | 1.233E+6 | 1.022E+6 | 1.220E+6 | 4.330E+4 | 8.661E+4 | 7.91% | -0.62% |
| 140 | | 4 | 7.280E+5 | 6.338E+5 | 8.222E+5 | 6.730E+5 | 7.990E+5 | 2.959E+4 | 5.918E+4 | 8.13% | 33.09% |
| 180 | | 4 | 4.818E+5 | 4.145E+5 | 5.490E+5 | 4.450E+5 | 5.250E+5 | 2.112E+4 | 4.225E+4 | 8.77% | 55.72% |

Cell Density Detail

| C-µg/L | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|--------|------------------|----------|----------|----------|----------|
| 0 | Negative Control | 1.094E+6 | 1.099E+6 | 1.064E+6 | 1.095E+6 |
| 20 | | 1.333E+6 | 1.310E+6 | 1.480E+6 | 1.456E+6 |
| 40 | | 1.381E+6 | 1.232E+6 | 1.397E+6 | 1.140E+6 |
| 80 | | 1.220E+6 | 1.060E+6 | 1.022E+6 | 1.077E+6 |
| 140 | | 6.730E+5 | 7.540E+5 | 7.990E+5 | 6.860E+5 |
| 180 | | 4.450E+5 | 4.460E+5 | 5.250E+5 | 5.110E+5 |

CETIS Analytical Report

Report Date: 13 Jan-16 15:51 (p 1 of 2)
 Test Code: SEL010716 | 15-2352-3661

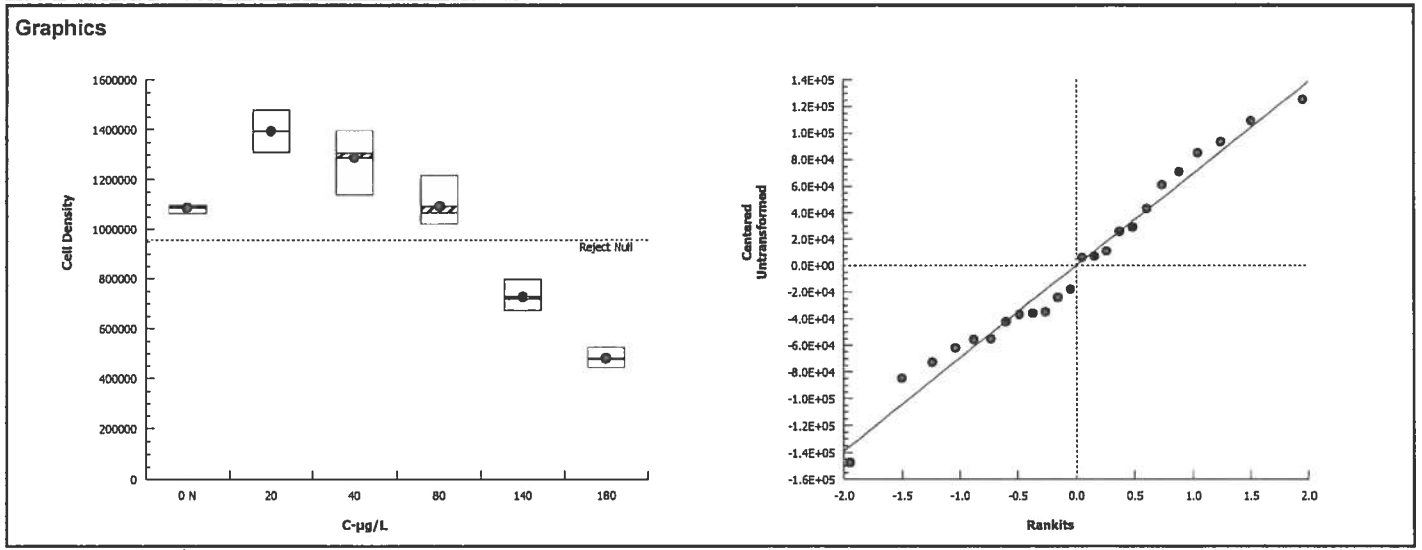
| Selenastrum Growth Test | | | | Aquatic Bioassay & Consulting Labs, Inc. | | | | | | | |
|---|---------------------------------|--------------|----------------------------------|--|---------------------|--------------------|----------|------------------------|----------|-------|---------|
| Analysis ID: | 14-1417-3399 | Endpoint: | Cell Density | CETIS Version: | CETISv1.8.7 | | | | | | |
| Analyzed: | 13 Jan-16 15:50 | Analysis: | Parametric-Control vs Treatments | Official Results: | Yes | | | | | | |
| Data Transform | Zeta | Alt Hyp | Trials | Seed | PMSD | NOEL | LOEL | TOEL | TU | | |
| Untransformed | NA | C > T | NA | NA | 12.0% | 80 | 140 | 105.8 | | | |
| Dunnett Multiple Comparison Test | | | | | | | | | | | |
| Control | vs C-µg/L | Test Stat | Critical | MSD | DF | P-Value | P-Type | Decision(α:5%) | | | |
| Negative Control | 20 | -5.634 | 2.407 | 1E+05 | 6 | 1.0000 | CDF | Non-Significant Effect | | | |
| | 40 | -3.664 | 2.407 | 1E+05 | 6 | 1.0000 | CDF | Non-Significant Effect | | | |
| | 80 | -0.124 | 2.407 | 1E+05 | 6 | 0.8672 | CDF | Non-Significant Effect | | | |
| | 140* | 6.612 | 2.407 | 1E+05 | 6 | <0.0001 | CDF | Significant Effect | | | |
| | 180* | 11.13 | 2.407 | 1E+05 | 6 | <0.0001 | CDF | Significant Effect | | | |
| ANOVA Table | | | | | | | | | | | |
| Source | Sum Squares | Mean Square | DF | F Stat | P-Value | Decision(α:5%) | | | | | |
| Between | 2.387365E+12 | 4.774729E+11 | 5 | 80.53 | <0.0001 | Significant Effect | | | | | |
| Error | 1.067293E+11 | 5929403000 | 18 | | | | | | | | |
| Total | 2.494094E+12 | | 23 | | | | | | | | |
| Distributional Tests | | | | | | | | | | | |
| Attribute | Test | Test Stat | Critical | P-Value | Decision(α:1%) | | | | | | |
| Variances | Bartlett Equality of Variance | 9.196 | 15.09 | 0.1015 | Equal Variances | | | | | | |
| Variances | Mod Levene Equality of Variance | 3.244 | 4.248 | 0.0291 | Equal Variances | | | | | | |
| Variances | Levene Equality of Variance | 5.257 | 4.248 | 0.0038 | Unequal Variances | | | | | | |
| Distribution | Shapiro-Wilk W Normality | 0.9763 | 0.884 | 0.8200 | Normal Distribution | | | | | | |
| Distribution | Kolmogorov-Smirnov D | 0.1117 | 0.2056 | 0.6287 | Normal Distribution | | | | | | |
| Distribution | D'Agostino Skewness | 0.1423 | 2.576 | 0.8868 | Normal Distribution | | | | | | |
| Distribution | D'Agostino Kurtosis | 0.2983 | 2.576 | 0.7654 | Normal Distribution | | | | | | |
| Distribution | D'Agostino-Pearson K2 Omnibus | 0.1093 | 9.21 | 0.9468 | Normal Distribution | | | | | | |
| Distribution | Anderson-Darling A2 Normality | 0.2888 | 3.878 | 0.6459 | Normal Distribution | | | | | | |
| Cell Density Summary | | | | | | | | | | | |
| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Median | Min | Max | Std Err | CV% | %Effect |
| 0 | Negative Control | 4 | 1.088E+6 | 1.062E+6 | 1.114E+6 | 1095000 | 1.064E+6 | 1.099E+6 | 8.072E+3 | 1.48% | 0.0% |
| 20 | | 4 | 1.395E+6 | 1.258E+6 | 1.531E+6 | 1395000 | 1.310E+6 | 1.480E+6 | 4.283E+4 | 6.14% | -28.19% |
| 40 | | 4 | 1.288E+6 | 1.091E+6 | 1.484E+6 | 1307000 | 1.140E+6 | 1.397E+6 | 6.162E+4 | 9.57% | -18.34% |
| 80 | | 4 | 1.095E+6 | 9.569E+5 | 1.233E+6 | 1069000 | 1.022E+6 | 1.220E+6 | 4.330E+4 | 7.91% | -0.62% |
| 140 | | 4 | 7.280E+5 | 6.338E+5 | 8.222E+5 | 720000 | 6.730E+5 | 7.990E+5 | 2.959E+4 | 8.13% | 33.09% |
| 180 | | 4 | 4.818E+5 | 4.145E+5 | 5.490E+5 | 478500 | 4.450E+5 | 5.250E+5 | 2.112E+4 | 8.77% | 55.72% |
| Cell Density Detail | | | | | | | | | | | |
| C-µg/L | Control Type | Rep 1 | Rep 2 | Rep 3 | Rep 4 | | | | | | |
| 0 | Negative Control | 1.094E+6 | 1.099E+6 | 1.064E+6 | 1.095E+6 | | | | | | |
| 20 | | 1.333E+6 | 1.310E+6 | 1.480E+6 | 1.456E+6 | | | | | | |
| 40 | | 1.381E+6 | 1.232E+6 | 1.397E+6 | 1.140E+6 | | | | | | |
| 80 | | 1.220E+6 | 1.060E+6 | 1.022E+6 | 1.077E+6 | | | | | | |
| 140 | | 6.730E+5 | 7.540E+5 | 7.990E+5 | 6.860E+5 | | | | | | |
| 180 | | 4.450E+5 | 4.460E+5 | 5.250E+5 | 5.110E+5 | | | | | | |

CETIS Analytical Report

Report Date: 13 Jan-16 15:51 (p 2 of 2)

Test Code: SEL010716 | 15-2352-3661

| | | | |
|--------------------------------|--|---|--|
| Selenastrum Growth Test | | Aquatic Bioassay & Consulting Labs, Inc. | |
| Analysis ID: 14-1417-3399 | Endpoint: Cell Density | CETIS Version: CETISv1.8.7 | |
| Analyzed: 13 Jan-16 15:50 | Analysis: Parametric-Control vs Treatments | Official Results: Yes | |



CETIS Measurement Report

Report Date: 13 Jan-16 15:51 (p 1 of 2)
 Test Code: SEL010716 | 15-2352-3661

Selenastrum Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

| | | |
|------------------------------|------------------------------------|---------------------------|
| Batch ID: 03-4998-4998 | Test Type: Cell Growth | Analyst: |
| Start Date: 07 Jan-16 13:09 | Protocol: EPA/821/R-02-013 (2002) | Diluent: Laboratory Water |
| Ending Date: 11 Jan-16 14:00 | Species: Selenastrum capricornutum | Brine: Not Applicable |
| Duration: 4d 1h | Source: Aquatic Biosystems, CO | Age: |
| Sample ID: 00-2681-6804 | Code: SEL010716 | Client: Internal Lab |
| Sample Date: 07 Jan-16 13:09 | Material: Cadmium chloride | Project: |
| Receive Date: | Source: Reference Toxicant | |
| Sample Age: NA | Station: REF TOX | |

Alkalinity (CaCO3)-mg/L

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|------|----------|
| 0 | Negative Contr | 1 | 70 | | | 70 | 70 | 0 | 0 | 0.0% | 0 |
| 20 | | 1 | 78 | | | 78 | 78 | 0 | 0 | 0.0% | 0 |
| 40 | | 1 | 84 | | | 84 | 84 | 0 | 0 | 0.0% | 0 |
| 80 | | 1 | 79 | | | 79 | 79 | 0 | 0 | 0.0% | 0 |
| 140 | | 1 | 79 | | | 79 | 79 | 0 | 0 | 0.0% | 0 |
| 180 | | 1 | 67 | | | 67 | 67 | 0 | 0 | 0.0% | 0 |
| Overall | | 6 | 76.17 | | | 67 | 84 | | | | 0 (0%) |

Conductivity-µmhos

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 5 | 412.4 | 405.5 | 419.3 | 405 | 420 | 2.482 | 5.55 | 1.35% | 0 |
| 20 | | 5 | 442.8 | 434.5 | 451.1 | 432 | 450 | 2.99 | 6.686 | 1.51% | 0 |
| 40 | | 5 | 415 | 408.5 | 421.5 | 411 | 424 | 2.345 | 5.244 | 1.26% | 0 |
| 80 | | 5 | 403.2 | 402.6 | 403.8 | 403 | 404 | 0.2 | 0.4472 | 0.11% | 0 |
| 140 | | 5 | 378.8 | 370.4 | 387.2 | 372 | 389 | 3.023 | 6.76 | 1.79% | 0 |
| 180 | | 5 | 356 | 351.5 | 360.5 | 351 | 361 | 1.612 | 3.606 | 1.01% | 0 |
| Overall | | 30 | 401.4 | | | 351 | 450 | | | | 0 (0%) |

Hardness (CaCO3)-mg/L

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|-------|---------|---------|-----|-----|---------|---------|------|----------|
| 0 | Negative Contr | 1 | 100 | | | 100 | 100 | 0 | 0 | 0.0% | 0 |
| 20 | | 1 | 100 | | | 100 | 100 | 0 | 0 | 0.0% | 0 |
| 40 | | 1 | 108 | | | 108 | 108 | 0 | 0 | 0.0% | 0 |
| 80 | | 1 | 112 | | | 112 | 112 | 0 | 0 | 0.0% | 0 |
| 140 | | 1 | 116 | | | 116 | 116 | 0 | 0 | 0.0% | 0 |
| 180 | | 1 | 104 | | | 104 | 104 | 0 | 0 | 0.0% | 0 |
| Overall | | 6 | 106.7 | | | 100 | 116 | | | | 0 (0%) |

pH-Units

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|------|---------|---------|-----|-----|---------|---------|-------|----------|
| 0 | Negative Contr | 5 | 7.74 | 7.598 | 7.882 | 7.6 | 7.9 | 0.05099 | 0.114 | 1.47% | 0 |
| 20 | | 5 | 7.98 | 7.796 | 8.164 | 7.8 | 8.2 | 0.06633 | 0.1483 | 1.86% | 0 |
| 40 | | 5 | 8.02 | 7.884 | 8.156 | 7.9 | 8.2 | 0.04899 | 0.1095 | 1.37% | 0 |
| 80 | | 5 | 8.02 | 7.884 | 8.156 | 7.9 | 8.2 | 0.04899 | 0.1095 | 1.37% | 0 |
| 140 | | 5 | 7.98 | 7.876 | 8.084 | 7.9 | 8.1 | 0.03742 | 0.08366 | 1.05% | 0 |
| 180 | | 5 | 7.96 | 7.892 | 8.028 | 7.9 | 8 | 0.02449 | 0.05476 | 0.69% | 0 |
| Overall | | 30 | 7.95 | | | 7.6 | 8.2 | | | | 0 (0%) |

Temperature-°C

| C-µg/L | Control Type | Count | Mean | 95% LCL | 95% UCL | Min | Max | Std Err | Std Dev | CV% | QA Count |
|---------|----------------|-------|------|---------|---------|-----|------|---------|---------|-------|----------|
| 0 | Negative Contr | 5 | 24.1 | 23.82 | 24.38 | 24 | 24.5 | 0.1 | 0.2236 | 0.93% | 0 |
| 20 | | 5 | 24.1 | 23.82 | 24.38 | 24 | 24.5 | 0.1 | 0.2236 | 0.93% | 0 |
| 40 | | 5 | 24.1 | 23.82 | 24.38 | 24 | 24.5 | 0.1 | 0.2236 | 0.93% | 0 |
| 80 | | 5 | 24.1 | 23.82 | 24.38 | 24 | 24.5 | 0.1 | 0.2236 | 0.93% | 0 |
| 140 | | 5 | 24.1 | 23.82 | 24.38 | 24 | 24.5 | 0.1 | 0.2236 | 0.93% | 0 |
| 180 | | 5 | 24.1 | 23.82 | 24.38 | 24 | 24.5 | 0.1 | 0.2236 | 0.93% | 0 |
| Overall | | 30 | 24.1 | | | 24 | 24.5 | | | | 0 (0%) |

CETIS Measurement Report

Report Date: 13 Jan-16 15:51 (p 2 of 2)
 Test Code: SEL010716 | 15-2352-3661

Selenastrum Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

Alkalinity (CaCO3)-mg/L

| C-µg/L | Control Type | 1 |
|--------|----------------|----|
| 0 | Negative Contr | 70 |
| 20 | | 78 |
| 40 | | 84 |
| 80 | | 79 |
| 140 | | 79 |
| 180 | | 67 |

Conductivity-µmhos

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 |
|--------|----------------|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 411 | 411 | 415 | 420 | 405 |
| 20 | | 432 | 445 | 442 | 450 | 445 |
| 40 | | 412 | 411 | 415 | 413 | 424 |
| 80 | | 403 | 403 | 403 | 403 | 404 |
| 140 | | 375 | 376 | 382 | 389 | 372 |
| 180 | | 351 | 356 | 355 | 357 | 361 |

Hardness (CaCO3)-mg/L

| C-µg/L | Control Type | 1 |
|--------|----------------|-----|
| 0 | Negative Contr | 100 |
| 20 | | 100 |
| 40 | | 108 |
| 80 | | 112 |
| 140 | | 116 |
| 180 | | 104 |

pH-Units

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 |
|--------|----------------|-----|-----|-----|-----|-----|
| 0 | Negative Contr | 7.7 | 7.6 | 7.7 | 7.8 | 7.9 |
| 20 | | 8 | 8.2 | 7.9 | 7.8 | 8 |
| 40 | | 8 | 8.2 | 8 | 7.9 | 8 |
| 80 | | 8 | 8.2 | 8 | 8 | 7.9 |
| 140 | | 7.9 | 8.1 | 8 | 8 | 7.9 |
| 180 | | 7.9 | 8 | 8 | 8 | 7.9 |

Temperature-°C

| C-µg/L | Control Type | 1 | 2 | 3 | 4 | 5 |
|--------|----------------|------|----|----|----|----|
| 0 | Negative Contr | 24.5 | 24 | 24 | 24 | 24 |
| 20 | | 24.5 | 24 | 24 | 24 | 24 |
| 40 | | 24.5 | 24 | 24 | 24 | 24 |
| 80 | | 24.5 | 24 | 24 | 24 | 24 |
| 140 | | 24.5 | 24 | 24 | 24 | 24 |
| 180 | | 24.5 | 24 | 24 | 24 | 24 |