

February 27, 2009

Mr. Sam Unger
Irrigated Lands
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

Dear Mr. Unger:

PW Environmental (PW) prepared this *Annual Monitoring Report* on behalf of Nursery Growers Association (NGA), Los Angeles County Irrigated Lands Group. Monitoring and reporting was conducted in accordance with the Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands (Order #R4-2005-0080), and the associated Quality Assurance Project Plan and Monitoring and Reporting Plan submitted for NGA.

During the 2008 calendar year, general chemistry water quality benchmarks were exceeded in 21 of the 33 samples, pesticide benchmarks were exceeded in 23 of the 33 samples, United States Environmental Protection Agency Aquatic Life Benchmarks were exceeded in 10 of the 33 samples collected, and toxicity identification evaluations were initiated in six of the 25 samples collected.

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,

PW ENVIRONMENTAL

Zachary C. Moran
Project Manager

cc: Mr. John Shoustra

ANNUAL MONITORING REPORT

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

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ANNUAL MONITORING REPORT

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Prepared for:

The Nursery Growers Association
Los Angeles County Irrigated Lands Group
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CWIL Order No. R4-2005-0080

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TABLE OF CONTENTS

1.0 INTRODUCTION.....	1
2.0 BACKGROUND	2
3.0 SAMPLING EVENTS	3
4.0 SUMMARY OF RESULTS	4
4.1 GENERAL CHEMISTRY	4
4.2 PESTICIDES	4
4.3 TOXICITY.....	5
4.4 FIELD MONITORING RESULTS	7
5.0 SAMPLING SITES.....	7
5.1 ABC NURSERY – NGA SITE #4.....	7
5.2 ACOSTA GROWERS – NGA SITE #13.....	9
5.3 BOETHING TREELAND FARMS – NGA SITE #19	11
5.4 CARLOS SOTO, JR. – NGA SITE #25	13
5.5 COINER NURSERY – NGA SITE #31	14
5.6 G. HERNANDEZ - NEW WESTGROWERS – NGA SITE #53	16
5.7 H&H NURSERY OF LAKEWOOD – NGA SITE #64.....	17
5.8 M. DOWNARD – RAINBOW GARDEN NURSERY – NGA SITE #109/110	19
5.9 NORMAN’S NURSERY – BROADWAY SOUTH – NGA SITE #124.....	20
5.10 NORMANS NURSERY – ROSEMEAD – NGA SITE #130.....	22
5.11 R. WILSON – COLORAMA – NGA SITE #150	24
5.12 SY NURSERY, INC. – NGA SITE #168.....	26
5.13 TY NURSERY – YARD #6 – NGA SITE #176.....	27
5.14 ULTRA GREENS NURSERY – NGA SITE #178.....	29
5.15 VALLEY SOD FARMS – NGA SITE #184.....	30
5.16 WEST COVINA WHOLESALE – DAMIEN – NGA SITE #189.....	31
5.17 HAGGSTROM VINEYARD– NGA SITE #210	33
5.18 SCHOELKOPF VINEYARD– NGA SITE #224.....	34
5.19 VALLEY SOD FARM, ENCINO AND VALLEY TREE CREST – FORMER NGA #182 AND #183.....	35
6.0 QUALITY ASSURANCE	35
6.1 SAMPLE HANDLING.....	36
6.2 FIELD QUALITY CONTROL.....	36
6.2.1 Equipment Blanks.....	36
6.2.2 Field Blanks	37
6.2.3 Field Duplicates	37
6.3 LABORATORY QUALITY CONTROL.....	38
6.3.1 Procedural Blanks	38
6.3.2 Accuracy	38
6.3.3 Precision.....	38
6.4 EQUIPMENT/MATERIAL CLEANING AND CALIBRATION	39
7.0 DISCUSSION / CONCLUSION.....	39

TABLE OF CONTENTS, CONTINUED

TABLES:

Table 1	Sampling Event Schedule
Table 2	List of Collected Samples
Table 3	List of Constituents for Testing
Table 4	Water Quality Objectives – General Chemistry
Table 5	Summary of Samples Collected – General Chemistry
Table 6	Water Quality Objectives – CWIL Limits
Table 7	Water Quality Objectives – Aquatic Life Benchmarks
Table 8	Summary of Samples Collected – Chlorinated Pesticides
Table 9	Summary of Samples Collected – Organophosphorus Pesticides
Table 10	Summary of Samples Collected – Pyrethroid Pesticides
Table 11	Summary of Samples Collected – Toxicity Results
Table 12	Summary of Samples Collected – Field Monitoring Results
Tables 13-X	Summary of Samples Collected – LAILG Site #X
Table 14	Summary of QA Samples Collected – Detected Constituents
Table 15	Calibration Log

FIGURES:

Figure 1	Complete map of Los Angeles County Irrigated Lands Group
Figures 2-19	Aerial Photos of Sample Locations for each Sampling Site

APPENDICES:

Appendix A	Complete List of Los Angeles County Irrigated Lands Group - Nursery Growers Association
Appendix B	Photographic Documentation of Sampling Events
Appendix C	Laboratory Analytical Results and Chain of Custody Documentation - CRG
Appendix D	Laboratory Analytical Results and Chain of Custody Documentation - ABC

ACRONYMS

ABC	Aquatic Bioassay and Consulting Laboratories
ALB	Aquatic Life Benchmark
AMR	Annual Monitoring Report
BMP	Best Management Practice
BMPQ	Best Management Practice Questionnaire (See WQMP)
COC	Chain of Custody
CRG	CRG Marine Laboratories
CWIL	Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands, Order #R4-2005-0080
LAILG	Los Angeles Irrigated Lands Group
LARWQCB	Los Angeles Regional Water Quality Control Board
lb	Pound
MDL	Method Detection Limit
MRP	Monitoring and Reporting Plan
NGA	Nursery Growers Association
NOI	Notice of Intent
NVILG	Noncommercial Vineyards Irrigated Lands Group
OC	Organochlorinated Pesticides
OP	Organophosphate Pesticides
oz	Ounce
PBO	Piperonyl Butoxide
PW	PW Environmental
PP	Pyrethroid Pesticides
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
RPD	Relative Percent Difference
TDS	Total Dissolved Solids
TIE	Toxicity Identification Evaluation
USEPA	United States Environmental Protection Agency
WQMP	Water Quality Management Plan

ANNUAL MONITORING REPORT
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 #R4-2005-0080. PW Environmental was contracted by NGA to manage the technical aspect of the LAILG.

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.

In the Los Angeles Region, irrigated crops are the dominant agricultural land use. 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 Region, the LARWQCB developed a CWIL as mandated by recent changes in state law and policy.

Los Angeles County covers 4,752 square miles (3,041,280 acres), and is bordered to the west by Ventura County, to the north by Kern County, to the east by San Bernadino County, to the southeast by Orange County, and to the south by the Pacific Ocean. The LAILG currently comprises approximately 2,161 acres.

Los Angeles County is broken up into four major watersheds: the Dominguez Channel, Los Angeles River, San Gabriel River, and Santa Monica Bay. All four watersheds have impacted waterbodies that appear on the federal 303(d) list, and listed contaminants include constituents that could be related to agricultural uses. Agricultural uses are considered as potential or current contributors of nutrients, pesticides, and suspended solids to these impacted waterbodies.

On November 3, 2005 the LARWQCB adopted the CWIL within the Los Angeles Region (Order R4-2005-0080). The goal of this program is to protect and improve water quality, and to attain water quality objectives in the receiving water bodies. This program has been adopted in its current form for five years. As a condition of the CWIL program, dischargers are required to develop monitoring programs to assess the impacts of discharges from irrigated lands.

The objective of this AMR is to evaluate compliance with water quality benchmarks established in the CWIL during 2008, 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.

2.0 BACKGROUND

There are a total of 237 growers that are currently associated with the LAILG (Figure 1). A complete list of current group members is included in Appendix A. After communications with the LARWQCB on September 9, 2006, it was established that 16 sites would be representative sample sites for the LAILG based on their potential impacts to the surface waters of the Los Angeles Region. To the extent possible, sample sites were chosen to be representative of the group as a whole, based on various crop types, watering practices, fertilizer and pesticide use, best management practices, and site locations. Representative sampling sites were chosen so that data collected could be fairly extrapolated across the entire LAILG to depict runoff characteristics from the enrolled growers. Sites were also chosen based on ease of sampling access. Two of the original sampling locations are no longer operating growers: Valley Sod Farm (site #183) and Valley Crest Tree Company (site #182). PW chose two replacement sampling sites: Valley Sod Farm (#184) and Ultra Greens Nursery (#178). Both were in close vicinity and had similar operating conditions as the previous sites. In addition, PW added two additional sampling sites at vineyards due to the recent incorporation of the NVILG into the LAILG. The new sites were incorporated into the sampling program during the second year wet season sampling event.

Crop types for the LAILG were placed into seven basic categories: general ornamentals, tree farms, color plants, greenhouses, sod farms, vineyards, and row crops. All visited sites had their foliage planted in pots or trays, with the exception of the sod farm and vineyards. In order to minimize water use, the majority of the growers utilize either a drip irrigation or hand watering system, which produces very little to no dry season runoff. Some growers still use a sprinkler system in addition to or in replacement of hand watering and drip irrigation. Average water use ranges from approximately 4,000 gallons per month to 5,250,000 gallons per month at selected sampling sites. Fertilizer use varies at each site, ranging from approximately 1,200 pounds per year to 72,000 pounds per year. Pesticide uses and types also vary considerably. Not all sampling locations reported water use, pesticides types and amounts, and/or fertilizer use on their NOIs. A detailed description of each of the 18 chosen sites and field monitoring results is presented in the following sections. Figure 1 presents a regional map showing sites involved in the LAILG.

3.0 SAMPLING EVENTS

Both rain totals and storm intensity were monitored throughout the program in order to determine when to initiate sampling events. The MRP stated that a rain total of 0.5 inches would be used as a trigger to initiate sampling activities; however, during field monitoring events and site reconnaissance, PW determined that rainfall intensity and duration was a better indicator for the successful sampling of most sites. Storms encountered during this monitoring period were generally more sustained than storms encountered during 2007, allowing for the entire wet season sampling event for year two to be completed over two storm events. However, the majority of nurseries only had enough runoff to collect a sample if it was still raining heavily at the site at the time of sample collection. Sustained runoff at the sample sites was generally not encountered. PW visited all of the sampling sites on November 26 and December 15, 2008.

Due to time constraints, the field sampling crew was instructed to observe each site for a minimum of one hour if sufficient rain was falling. If runoff was not observed during that time, the sampling crew documented site conditions and mobilized to the next sampling site. Rainfall amounts, storm intensity, and storm patterns were monitored using www.accuweather.com, www.weather.com, www.wunderground.com, and <http://cdec.water.ca.gov/misc/RealPrecip.html>. Rainfall information from specific storm events has been kept on file at PW, and is available upon request. Photographic documentation of each sampling site is included in Appendix B.

This report presents data generated during the 2008 calendar year. Table 1 presents the sampling event schedule timeline. During the dry season, which lasted from May 16 through October 15, 2008, samples were collected at 3 of the 16 sampling sites. The remaining 13 sites did not have sufficient runoff for sampling purposes (Table 2). Various combinations of nurseries were visited on August 12, August 13, and September 23 through September 26, 2007. All sites were visited for at least one hour at the end of or during their irrigation cycle, to the extent practical. The majority of nurseries utilized a drip or hand watering irrigation system, and not enough water was used to generate runoff from the property. In comparison to the dry sampling events that took place during 2007, there was a sizable reduction in the amount of runoff encountered at sampling sites. Photographs were taken at each site, and are included in Appendix B.

During the 2007 wet season, which extended from 2007 into January 1 through May 15, 2008, samples were collected from 8 of the 16 sampling sites, over a period of two rain events. During the 2008 wet season, which lasted from October 15 through December 31, 2008, samples were collected from 14 of the 18 sampling sites, over a period of two rain events. Samples were collected from five sites from January 4 and January 5, 2008, five sites from January 23 through January 25, 2008, eight sites on November 26, 2008, and eleven sites on December 15, 2008. During the two rain events in the month of January, sites were visited based on localized rain patterns and previous samples collected. All 18 sampling sites were visited on November 26 and December 15, 2008. The second year wet season sampling event has been completed.

4.0 SUMMARY OF RESULTS

Samples were collected and analyzed as presented in the MRP and QAPP. Table 3 presents the list of constituents analyzed during this reporting period, and the general subdivisions that are ascribed to them for this report. Chronic toxicity testing was conducted on one or all three of the following test species: Pimephales promelas (Fathead Minnow), Ceriodaphnia (water flea), and Selenastrum capricornutum (green algae). Subsequent TIE testing was conducted on the most sensitive test species. Samples were submitted to CRG and ABC, both state-certified laboratories. All analysis were conducted in accordance with current United States Environmental Protection Agency guideline procedures, or as specified in this monitoring program. Complete laboratory analytical results from CRG are included as Appendix C. Complete toxicity results from ABC are included as Appendix D.

4.1 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 4 outlines the site specific water quality objectives and associated sampling sites used to evaluate general chemistry results for this report. Complete laboratory analytical results for general chemistry constituents are presented in Table 5. Detailed information on site-specific sampling results is presented in Section 5.

Based on laboratory analytical results, general chemistry water quality benchmarks were exceeded in 19 of the 33 samples collected during this reporting period, at ten of the 20 sites sampled (two sites that were sampled in January are no longer sampling sites). Concentrations exceeding CWIL benchmarks were: ammonia in one sample; chloride in two samples collected from two sampling sites; nitrate in 17 samples collected from eleven sampling sites; sulfate in five samples collected from four sampling sites; and TDS in seven samples collected from six sampling sites. Exceedances were observed in a slightly larger percentage of CWIL regulated constituents collected during the dry season, however, the majority of samples (approximately 90 percent) were collected during the wet season. To date, there is no apparent correlation between individual site fertilizer use and sampling site exceedances for nutrients.

4.2 PESTICIDES

Pesticide water quality objectives were taken directly from the CWIL, as stated on the MRP and QAPP (Table 6). In addition, pesticides that are outlined in USEPA ALB guidelines were evaluated. Any pesticide that exceeded the lowest value reported on the table for either acute or chronic fish and invertebrates was considered as water quality exceedances (Table 7). These constituents are not directly covered in the CWIL. Based on laboratory analytical results, CWIL

pesticide benchmarks were exceeded in 23 of the 33 samples collected during this reporting period, at 13 of the 20 sites sampled (two sites that were sampled in January are no longer sampling sites). ALB pesticide guidelines were exceeded in 9 of the 33 samples collected during this reporting period, at 13 of the 20 sites sampled (two sites that were sampled in January are no longer sampling sites). Complete laboratory analytical results for pesticides are presented in Tables 8-10. Detailed information on site-specific sampling results is presented in Section 5.

Concentrations of chlorinated pesticides exceeding CWIL benchmarks were: 4,4'-DDD in three samples collected from three sampling sites; 4,4'-DDE in ten samples collected from nine sampling sites; 4,4'-DDT in one sample; and, total Chlordane in thirteen samples collected from seven sampling sites.

CWIL regulated compounds Aldrin, BHC-alpha, BHC-beta, BHC-gamma, Dieldrin, Endosulfan-I, Endosulfan-II, Endrin, Heptachlor, and Heptachlor Epoxide were not detected above laboratory MDLs in samples collected during 2008. Additional chlorinated pesticides, not regulated by the CWIL, that were detected in sampling events were: DCPA, Dicofol, and Endrin Ketone.

Concentrations of organophosphorus pesticides exceeding CWIL benchmarks were Chlorpyrifos in six samples collected from five sampling sites, and Diazinon in four samples collected from two sampling sites. Additional organophosphorus pesticides not regulated by the CWIL that were detected in sampling events were Dimethoate and Malathion. Concentrations of Malathion exceeded ALB pesticide guidelines at four sampling sites.

Water quality benchmarks for pyrethroid pesticides were not established by the CWIL. Pyrethroid pesticides detected during sampling events were: Bifenthrin, Cyfluthrin, Cypermethrin, Danitol, Deltamethrin, Esfenvalerate, Fenvalerate, Fluvalinate, L-Cyhalothrin, and Permethrin. Concentrations of Permethrin exceeded ALB pesticide guidelines at five sampling sites.

4.3 TOXICITY

Toxicity water quality objectives were determined as outlined in the MRP and QAPP, and through communications with ABC laboratory. Beginning during the second year dry sampling event, adequate sample water was collected to run a TIE immediately upon indication of toxicity in runoff samples. Based on communications with ABC laboratory, TIE testing was only initiated if samples indicated that toxicity could potentially be high enough to complete a successful TIE. As tests are only run on 100% concentration of samples (no dilution water), a numerical value of TUC cannot be accurately determined. A TUC of greater than 2.0 is generally required to successfully implement a TIE. Due to the lack of TUC values, a TIE was generally run on samples that exhibited a high mortality, with the discretion on whether or not to run the TIE left up to ABC laboratory. Chronic toxicity testing was conducted for Pimephales Promelas (Fathead Minnow), Ceriodaphnia (water flea), and Selenastrum Capricornutum (green algae).

As outlined in the CWIL, the most sensitive species was chosen for each sampling site for the second year of toxicity testing. A letter outlining the most sensitive species that were chosen for each sampling site accompanies this report. The new and replacement sampling sites underwent toxicity testing for all three species. Complete lab results for toxicity testing are presented in Table 11.

TIE results initiated from samples that were collected in 2007 reported toxicity in one of five samples. The single sample that exhibited toxicity revealed that non-polar organics were the major source of toxicity. Non-polar organics are a class of chemical compounds that include a large number of constituents that are not covered under the laboratory testing program outlined in the CWIL, in addition to the OP, OC, and Pyrethroid pesticides. PBO addition did not reduce toxicity in samples, indicating that OP compounds did not contribute to the toxicity. Currently the cause of non-polar organic toxicity at sites is unknown, although Pyrethroid pesticides are suspected due to their documented high toxicity to aquatic organisms.

Based on laboratory analytical results, toxicity was significant enough to initiate a TIE in five of the 21 samples collected during 2008, at three of the 14 sampling sites. Four of the five TIEs that were initiated showed sufficient toxicity to identify a toxicant. In addition, ten samples exhibited partial toxicity to survival, growth, or reproduction, but were not deemed by ABC to have a potentially high enough TUC (at least 2.0) to initiate a full TIE.

During the dry season, a full TIE was conducted on one sample for Ceriodaphnia. The TIE indicated that non-polar organics and particulate bound toxicants were a source of toxicity. PBO addition did not reduce toxicity in samples, indicating that OP compounds did not contribute to the toxicity. Based on the elevated levels of Pyrethroid pesticides in the corresponding laboratory sample collected on the same date, and the fact that the majority of these pesticides have a high affinity to bind to soil, it appears that toxicity was at least partially caused by pesticides bound to soil particles present in the toxicity sample sent to the lab.

During the wet season, a full TIE was conducted on two samples for Ceriodaphnia and one sample for Selenastrum Capricornutum. The two TIEs initiated for Ceriodaphnia indicated that volatile compounds and heavy metals were a source of toxicity. The CWIL program does not currently analyze for constituents that fit into either of these categories, and the type and source of the toxicity is unknown. However, both of these samples also had corresponding elevated levels of pesticides, although TIE results did not indicate that they contributed to toxicity. The TIE initiated for Selenastrum Capricornutum indicated OP compounds and particulate bound toxicants were a source of toxicity. The corresponding laboratory sample collected on the same date did not report levels of OP or Pyrethroid pesticides that appear could contribute to sample toxicity. In addition, the sampling site for this sample does not report using pesticides on the property the sample was collected from. At this time it appears the toxicity is caused by a unknown constituent that is not covered by this program.

Generally, Ceriodaphnia appears to be the most susceptible species throughout the group, with the next most sensitive species being Selenastrum Capricornutum. Toxicity was not seen for Pimephales Promelas in any of the collected samples. Currently the CWIL program does not analyze for any herbicides, fungicides, and many of the adjuvants, which could also contribute to toxicity in samples collected during the CWIL program timeline. The complex interactions between various chemicals that are both included and not included in the CWIL program make the specific identification of toxicants difficult to impossible when only conducting a Phase I TIE on collected samples. Detailed information on site-specific sampling results is presented in Section 5.

4.4 FIELD MONITORING RESULTS

Based on objectives outlined in the *Water Quality Control Plan, Los Angeles Region*, dated June 13, 1994, field monitoring readings did not exceed basin plan objectives. Although elevated and depressed readings of pH, and elevated readings of turbidity were seen at some sample sites, the low flow off of these sites would be unlikely to have any effect on the quality of the eventual receiving waterbody for these sites. Complete results for field measurements are presented in Table 12. Hard copies of field data sheets and field reports are kept on file at PW, and are available upon request.

5.0 SAMPLING SITES

Site-specific information and water quality objective exceedances are presented below. Table 5 presents General Chemistry results, Tables 8-10 present pesticide results, Table 11 presents toxicity sample results, and Table 12 presents field monitoring results.

5.1 ABC NURSERY – NGA SITE #4

Crop Type: General Ornamental
Sub Basin: Dominguez Channel
City: Gardena
Total / Irrigated Acres: 19.2 / 15
Irrigation: Hand watering, drip
Approximate Water Use: 438,000 gallons per month
Fertilizer / Amount: 14-6-5 / 1,200 lb per year
Observed Discharge: Storm water and irrigation runoff
Approximate sample site GPS location: N 33° 52' 55.5" W 118° 16' 06.1"

An aerial photo of the site with sampling locations is presented on Figure 2 (Google Earthtm mapping services).

Total Samples Collected to Date – Four.

Wet season sampling 2008 - Year 1: A sample was collected on January 23, 2008.

Dry season sampling 2008 - Year 2: A sample was collected on August 13, 2008. The site was visited on September 24, 2008 and no runoff was observed.

Wet season sampling 2008 - Year 2: The site was visited twice on November 26, 2008 and no runoff was observed. A sample was collected on December 15, 2008.

General Chemistry Exceedances: During the 2008 monitoring year, detected concentrations of nitrate and TDS exceeded the CWIL benchmarks in the sample collected during the August 13, 2008 sampling event.

Pesticide Exceedances:

During the 2008 monitoring year, estimated concentrations of total chlordane exceeded CWIL benchmarks in samples collected during the August 13 and December 15, 2008 sampling event and chlorpyrifos and diazinon in samples collected during the January 23 and December 15, 2008 sampling event. In addition, diazinon exceeded CWIL benchmark in the sample collected during the August 13, 2008 sampling event.

USEPA ALB guidelines were exceeded for Malathion in samples collected during the January 23, August 13, and December 15, 2008 sampling events, and for Permethrin in samples collected during the August 13, and December 15, 2008 sampling event.

Toxicity Exceedances:

During the 2008 monitoring year, statistically significant toxicity was reported for Ceriodaphnia in the samples collected on January 23, August 13, and December 15, 2008. Follow up TIE testing was conducted for the sample collected on January 23, and August 13, 2008, results indicated non-polar organic compounds contributed to the toxicity in the samples. In addition, TIE testing was conducted for the sample collected on December 15, 2008 and results indicated that metals contributed to the toxicity observed in the sample.

WQMP Implementation:

Although the revised WQMP has yet to be approved by the LARWQCB, the following actions have been implemented.

ABC Nursery has begun to implement BMPs from the Irrigation Management, Erosion and Runoff Management, and Non Production Areas categories. The grower's main objectives were to reduce irrigation practices and minimize sediment runoff potential. Hand watering will be

aided by the use of watering wands; these devices will help minimize the amount of overspraying during watering. Sandbags have been placed on the northern fence line to minimize the amount of sediment runoff exiting the grower's facility. In addition, to limit sediment entering the main drainage channel, vegetation has been planted around a section of the channel. In order to limit the accumulation of soil debris on paved areas, the grower has implemented a biweekly (Wed-Fri) mechanical sweeping regiment to clean up the site. Additionally, the sweeper will operate one day before a forecasted rain event.

Additional BMPs for Pest Management and Nutrient Management will be initiated, as required for the large site group, by July 1, 2009. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-4 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.2 ACOSTA GROWERS – NGA SITE #13

Crop Type: General Ornamental
Sub Basin: San Gabriel River
City: Hacienda Heights
Total / Irrigated Acres: 4.5 Acres
Irrigation: Hand watering
Approximate Water Use: 240,000 gallons per month
Observed Discharge: Storm water
Fertilizers / Amount: 21-5-6 / 5,000 lb per year; 13-5-8 / 2,000 lb per year
Approximate sample site GPS location: N 33° 59' 50.9" W 117° 56' 56.9"

An aerial photo of the site with sampling locations is presented on Figure 3 (Google Earthtm mapping services).

Total Samples Collected to Date – One.

Wet season sampling 2008 - Year 1: No samples were collected, as there was no storm water runoff from the property.

Dry season sampling 2008 - Year 2: The site was visited on August 13 and September 24, 2008 and no runoff was observed. No samples were collected.

Wet season sampling 2008 – Year 2: The site was visited on November 26 and December 15, 2008 and no runoff was observed. No samples were collected.

General Chemistry Exceedances: None.

Pesticide Exceedances: None.

Toxicity Exceedances: None.

WQMP Implementation:

Although the revised WQMP has yet to be approved by the LARWQCB, the following actions have been implemented.

Acosta Nursery began to implement BMPs from the Pest Management, Nutrient Management, and Erosion and Runoff Management categories. The growers main objectives were to modify spraying techniques, limit nutrient loading potential, and minimize runoff. The grower is enforcing a no spraying policy for herbicides and pesticides one week prior to a forecasted rain event. Application of dry fertilizer will no longer be applied in a general broadcast method; instead it will be applied directly to intended containers. The grower also proposes to cover driveways with gravel to limit the amount of silt runoff.

All required BMPs for the medium sized growers have been met. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-13 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.3 BOETHING TREELAND FARMS – NGA SITE #19

Crop Type: Trees, General Ornamental
Sub Basin: Los Angeles River
City: Woodland Hills
Total / Irrigated Acres: 32 / 21 Acres
Irrigation: Sprinkler, Hand Watering, and Trickle
Approximate Water Use: 1,720,000 gallons per month
Observed Discharge: Irrigation and Storm water
Fertilizer / Amount: 23-6-12 / 37,395 lbs
Approximate sample site GPS location: N 34° 09' 51.1" W 118° 38' 2.07"

An aerial photo of the site with sampling locations is presented on Figure 4 (Google Earth[™] mapping services).

Total Samples Collected to Date – Five.

Wet season sampling – Year 1: A sample was collected on January 5, 2008.

Dry season sampling – Year 2: A sample was collected on August 12, 2008. The site was visited three times between September 23 and September 26, 2008 and no runoff was observed.

Wet season sampling – Year 2: A sample was collected on November 26, 2008. The site was visited on December 15, 2008 and no runoff was observed.

General Chemistry Exceedances:

During the 2008 monitoring year, detected concentrations of chloride, sulfate and TDS exceeded the CWIL benchmarks in the sample collected during the January 5, 2008 sampling event, and nitrate in samples collected during the August 12 and November 26, 2008 sampling events.

Pesticide Exceedances:

During the 2008 monitoring year, estimated concentrations of total chlordane exceeded CWIL benchmark in samples collected during the January 5, August 12, and November 26, 2008 sampling events, and DDT derivatives in samples collected during the January 5, and November 26, 2008 sampling events. In addition, chlorpyrifos exceeded CWIL benchmark in the sample collected during the November 26, 2008 sampling event.

USEPA ALB guidelines were exceeded for Permethrin in the sample collected during the November 26, 2008 sampling event.

Toxicity Exceedances:

Statistically significant toxicity was seen for Ceriodaphnia in the sample collected on January 5, 2008. Follow up TIE testing was conducted for the January 5, 2008 sample but did not show any observed effects.

WQMP Implementation:

Although the revised WQMP has yet to be approved by the LARWQCB, the following actions have been implemented.

Boething Treeland Farm began to implement BMPs outlined in the Erosion and Runoff Management section, with an estimated completion date of January 31, 2009. Due to the varied topography of the site, the grower's main objective was to limit the amount of sediment running off site. Sediment traps will be installed in the four drainage culverts located throughout the site. Sediment traps will include the use of straw wattles, poly-gravel bags and jute netting. In addition, all drainage culverts and sediment traps will be maintained on a monthly basis and after each rain event.

Additional BMPs for Irrigation Management, Pest Management, and Nutrient Management will be initiated, as required for the large site group, by July 1, 2009. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-19 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.4 CARLOS SOTO, JR. – NGA SITE #25

Crop Type: General Ornamental
Sub basin: Dominguez Channel
City: Gardena
Irrigated Acres: 3.5 Acres
Irrigation: Sprinkler, hand watering
Approximate Water Use: 4,000 gallons per month
Fertilizers/amount: 20-9-9 / 2,000 lb per year
Discharge: Stormwater only
Approximate sample site GPS location: N 33° 53' 6" W 118° 17' 6"

An aerial photo of the site with anticipated sampling locations is presented on Figure 5 (Google Earth™ mapping services).

Total Samples Collected to Date – One.

Wet season sampling – Year 1: No samples were collected, as there was no storm water runoff from the property.

Dry season sampling – Year 2: The site was visited on August 13 and September 25, 2008 and no runoff was observed. No samples were collected.

Wet season sampling – Year 2: A sample was collected on November 26, 2008. The site was visited on December 15, 2008 and no runoff was observed.
General Chemistry Exceedances: None.

Pesticide Exceedances:

During the 2008 monitoring year, estimated concentrations of total chlordane exceeded CWIL benchmark in the sample collected during the November 26, 2008 sampling event.

Toxicity Exceedances: None

WQMP Implementation:

Although the revised WQMP has yet to be approved by the LARWQCB, the following actions have been implemented.

Carlos Soto, Jr is not currently initiating BMPs, as the first sample has only been recently collected from the site.

One BMP for Irrigation Management or Erosion and Runoff Management, and one Pest Management or Nutrient Management will be initiated, as required for the medium sized site group, by July 1, 2009. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-25 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.5 COINER NURSERY – NGA SITE #31

Crop Type: General Ornamental
Sub basin: San Gabriel River
City: La Puente
Irrigated Acres: 62 Acres
Irrigation: Drip, sprinkler, hand watering
Approximate Water Use: Reclaimed water, use unknown
Fertilizers/amount: 15-15-15 / 16,000 lb per year
Discharge: Stormwater and Irrigation
Approximate sample site GPS location: N 33° 3' 0" W 118° 0' 14.4"

An aerial photo of the site with anticipated sampling locations is presented on Figure 6 (Google Earth[™] mapping services).

Total Samples Collected to Date – Three.

Pre Existing Structural Best Management Practices: Catch basins are in place to collect excess run off from the majority of the property.

Wet season sampling 2008 - Year 1: No samples were collected, as there was no stormwater runoff from the property.

Dry season sampling 2008 - Year 2: The site was visited on August 12, 2008 and no runoff was observed. A sample was collected on September 23, 2008.

Wet season sampling 2008 - Year 2: A sample was collected on November 26 and December 15, 2008.

General Chemistry Exceedances:

During the 2008 monitoring year, estimated concentrations of nitrate exceeded CWIL benchmarks in samples collected during the September 23 and December 15, 2008 sampling events.

Pesticide Exceedances:

During the 2008 monitoring year, concentrations of DDT derivatives exceeded CWIL benchmark in the sample collected during the September 23, 2008 sampling event, and total chlordane in samples collected during the September 23, and November 26, 2008 sampling events. In addition, chlorpyrifos concentration exceeded CWIL benchmark in the sample collected during the December 15, 2008 sampling event.

USEPA ALB guidelines were exceeded for Malathion in the sample collected during the December 15, 2008 sampling event.

Toxicity Exceedances: None.

WQMP Implementation:

Although the revised WQMP has yet to be approved by the LARWQCB, the following actions have been implemented.

Coiner Nursery is not currently initiating BMPs, as the first sample was only recently collected from the site.

One BMP from Irrigation Management, Erosion and Runoff Management, Pest Management, and Nutrient Management will be initiated, as required for the large sized site group, by July 1, 2009. One additional Irrigation Management or Erosion and Runoff Management BMP will also be initiated, as the site reported irrigation runoff on its NOI. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-31 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.6 G. HERNANDEZ - NEW WESTGROWERS – NGA SITE #53

Crop Type: General Ornamental
Sub basin: Los Angeles River
City: Compton
Irrigated Acres: 3.5 Acres
Irrigation: Unknown
Approximate Water Use: 10,000 gallons per month
Fertilizers/amount: 20-5-5 / 2,000 lb per year
Discharge: Stormwater only
Approximate sample site GPS location: N 33° 52' 51.1" W 118° 12' 56.3"

An aerial photo of the site with sampling locations is presented on Figure 7 (Google Earth[™] mapping services).

Total Samples Collected to Date – Two.

Wet season sampling 2008 – Year 1: A sample was collected on January 23, 2008.

Dry season sampling 2008 – Year 2: The site was visited on August 12, September 24, and September 25, 2008 and no runoff was observed. No samples were collected.

Wet season sampling 2008 – Year 2: The site was visited on November 26 and December 15, 2008 and no runoff was observed. No samples were collected.

General Chemistry Exceedances: None.

Pesticide Exceedances: None.

Toxicity Exceedances:

Statistically significant toxicity was seen for ceriodaphnia in the sample collected on January 23, 2008. Follow up TIE testing was conducted for the January 23, 2008 sample but did not show any observed effects.

WQMP Implementation:

Although the revised WQMP has yet to be approved by the LARWQCB, the following actions have been implemented.

New Westgrowers have begun implementing BMPs from the Erosion and Runoff Management and Non-Production Areas categories of the WQMP. The grower's main objective is to minimize the amount of sediment runoff. All water bearing channels on the site will be redirected to a central channel and that will be lined with vegetation. In addition, to limit the accumulation of sediment in potential runoff, all paved areas will be swept regularly.

One BMP from the Pest Management or Nutrient Management categories will be initiated, as required for the medium sized site group, by July 1, 2009. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-53 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.7 H&H NURSERY OF LAKEWOOD – NGA SITE #64

Crop Type: General Ornamental
Sub basin: San Gabriel River
City: Lakewood
Irrigated Acres: 5 Acres
Irrigation: Hand watering
Approximate Water Use: 14,700 gallons per month
Fertilizers/amount: 8-3-2 / 8,700 lb per year
Discharge: Storm water only
Approximate sample site GPS location: N 33° 52' 05.9" W 118° 08' 32.3"

An aerial photo of the site with sampling locations is presented on Figure 8 (Google Earthtm mapping services).

Total Samples Collected to Date – Two.

Wet season sampling 2008 – Year 1: A sample was collected on January 23, 2008.

Dry season sampling 2008 – Year 2: The site was visited on August 12 and September 25, 2008 and no runoff was observed. No samples were collected.

Wet season sampling 2008 – Year 2: The site was visited on November 26, 2008 and no runoff was observed. A sample was collected on December 15, 2008.

General Chemistry Exceedances: None.

Pesticide Exceedances:

During the 2008 monitoring year, concentrations of DDT derivatives and toxaphene exceeded CWIL benchmarks in the sample collected during the December 15, 2008 sampling event.

Toxicity Exceedances: None.

WQMP Implementation:

Although the revised WQMP has yet to be approved by the LARWQCB, the following actions have been implemented.

H&H Nursery has begun to implement BMPs for the Pest Management, Erosion and Runoff Management, and Non-Production Areas categories. The grower's main objectives were to limit the amount of pesticide and sediment runoff. Application of pesticides will be coordinated with weather reports and not be applied prior to rain events. To limit the accumulation of sediment and potential runoff all paved areas will be swept regularly.

All required BMPs for the medium sized growers have been met. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-64 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.8 M. DOWNARD – RAINBOW GARDEN NURSERY – NGA SITE #109/110

Crop Type: General Ornamental / Color plants
Sub basin: San Gabriel River
City: Glendora
Irrigated Acres: 7 Acres
Irrigation: Drip, hand watering
Approximate Water Use: 230,000 gallons per month
Fertilizers/amount: 25-5-5 / 5,000 lb per year
Discharge: Stormwater only
Approximate sample site GPS location: N 34° 07' 4.8" W 117° 52' 22.8"

An aerial photo of the site with sampling locations is presented on Figure 9 (Google Earth[™] mapping services).

Total Samples Collected to Date – Two.

Wet season sampling 2008 – Year 1: A sample was collected on January 4, 2008.

Dry season sampling 2008 – Year 2: The site was visited on August 12 and September 23, 2008 and no runoff was observed. No samples were collected.

Wet season sampling 2008 – Year 2: The site was visited on November 26, 2008 and no runoff was observed. A sample was collected on December 15, 2008.

General Chemistry Exceedances:

During the 2008 monitoring year, concentrations of nitrate exceeded CWIL benchmark in the sample collected during the December 15, 2008 sampling event.

Pesticide Exceedances:

During the 2008 monitoring year, concentrations of DDT derivatives exceeded CWIL benchmark in the sample collected during the December 15, 2008 sampling event. In addition, chlorpyrifos and diazinon exceeded the CWIL benchmarks in the sample collected during the January 4, 2008 sampling event.

Toxicity Exceedances: None.

WQMP Implementation:

Although the revised WQMP has yet to be approved by the LARWQCB, the following actions have been implemented.

Rainbow Nursery has begun to implement BMPs for the Pest Management category. The grower's main objective was to limit the amount of pesticide runoff. Initiating an Integrated Pest Management Program has allowed for the isolation of specific pests and performing spot spraying, reducing the amount of pesticides use at the site.

One BMP from the Irrigation Management or Erosion and Runoff Management categories will be initiated, as required for the medium sized site group, by July 1, 2009. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-109 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.9 NORMAN'S NURSERY – BROADWAY SOUTH – NGA SITE #124

Crop Type: General Ornamental
Sub basin: Los Angeles River
City: San Gabriel
Irrigated Acres: 10.4 Acres
Irrigation: Drip, hand watering
Approximate Water Use: 990,000 gallons per month
Fertilizers/amount: 23-6-12 / 7,000 lb per year
Discharge: Stormwater only
Approximate sample site GPS location: N 34° 05' 56.9" W 118° 04' 56.0"

An aerial photo of the site with sampling locations is presented on Figure 10 (Google Earthtm mapping services).

Total Samples Collected to Date – Five.

Wet season sampling 2008 – Year 1: A sample was collected on January 5, 2008.

Dry season sampling 2008 – Year 2: The site was visited on August 12 and September 24, 2008 and no runoff was observed. No samples were collected.

Wet season sampling 2008 – Year 2: A sample was collected on November 26 and December 15, 2008.

General Chemistry Exceedances:

During the 2008 monitoring year, concentrations of nitrate exceeded CWIL benchmark in samples collected during the January 5, November 26, and December 15, 2008 sampling events.

Pesticide Exceedances:

During the 2008 monitoring year, concentrations of DDT derivatives exceeded CWIL benchmark in samples collected during the November 26 and December 15, 2008 sampling events. In addition, total chlordane exceeded the CWIL benchmark in samples collected during the January 5, November 26, and December 15, 2008 sampling events.

USEPA ALB guidelines were exceeded for Malathion and Permethrin in the sample collected December 15, 2008.

Toxicity Exceedances:

Statistically significant toxicity was seen for Ceriodaphnia in the samples collected on January 5, November 26, and December 15, 2008. Follow up TIE testing was conducted on the January 5, and December 15, 2008 but did not show any observed effects. In addition, TIE testing was conducted for the sample collected on November 26, 2008 and indicated that volatile compounds contributed to the toxicity observed in the sample.

WQMP Implementation:

Although the revised WQMP has yet to be approved by the LARWQCB, the following actions have been implemented.

Norman's Nursery, Broadway South has begun to implement BMPs for the Irrigation Management, Nutrient Management, and Erosion and Runoff Management categories. The grower's main objectives were to lower the amount of irrigation water and fertilizer used, and to limit the amount of sediment runoff. Water usage at the site will be lowered when possible. In addition, monitoring of all drip irrigation lines will be conducted to insure proper utilization. Fertilizer nutrients added to watering system will be lowered and monitored, lowering the potential for higher nutrient runoff rates. As of January 31, 2009, all culverts surrounding the site will be inspected and properly sized for storm events.

One additional BMP for the Pest Management category will be initiated, as required for the large site group, by July 1, 2009. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-124 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.10 NORMANS NURSERY – ROSEMEAD – NGA SITE #130

Crop Type: Trees / General Ornamental
Sub basin: Los Angeles River
City: South El Monte
Irrigated Acres: 16.56 Acres
Irrigation: Drip, hand watering
Approximate Water Use: 2,450,000 gallons per month
Fertilizers/amount: 23-6-12 / 34,000 lb per year
Discharge: Irrigation and stormwater
Approximate sample site GPS location: N 34° 01' 59.3" W 118° 03' 54.8"

An aerial photo of the site with sampling locations is presented on Figure 11 (Google Earth™ mapping services).

Total Samples Collected to Date – Five.

Wet season sampling 2008 – Year 1: A sample was collected on January 24, 2008.

Dry season sampling 2008 – Year 2: The site was visited twice on August 13 and twice on September 24, 2008 and no runoff was observed. No samples were collected.

Wet season sampling 2008 – Year 2: A sample was collected on November 26 and December 15, 2008.

General Chemistry Exceedances:

During the 2008 monitoring year, concentrations of nitrate exceeded CWIL benchmark in samples collected during the November 26 and December 15, 2008 sampling events.

Pesticide Exceedances:

USEPA ALB guidelines were exceeded for Malathion in the sample collected during the December 15, 2008 sampling event, and for Permethrin in samples collected during the November 26 and December 15, 2008 sampling events.

Toxicity Exceedances: None.

WQMP Implementation:

Although the revised WQMP has yet to be approved by the LARWQCB, the following actions have been implemented.

Norman's Nursery, Rosemead has begun to implement BMPs for the Irrigation Management, Nutrient Management, and Erosion and Runoff Management categories. The grower's main objectives were to lower the amount of irrigation water and fertilizer used, and to limit the amount of sediment runoff. Water usage at the site will be lowered when possible. In addition, monitoring of all drip irrigation lines will be conducted to insure proper utilization. Fertilizer nutrients added to watering system will be lowered and monitored, lowering the potential for higher nutrient runoff rates. All culverts surrounding the site will be inspected and properly sized for storm events.

One additional BMP for the Pest Management category will be initiated, as required for the large site group, by July 1, 2009. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-130 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.11 R. WILSON – COLORAMA – NGA SITE #150

Crop Type: Color plants
Sub basin: San Gabriel River
City: Azusa
Irrigated Acres: 26 Acres
Irrigation: Drip, ebb and flow, hand watering
Approximate Water Use: Reclaimed and recycled water, use unknown
Fertilizers/amount: 8.4-2.7-4.2 / 15,154 lb per year
Discharge: Stormwater only
Approximate sample site GPS location: N 34° 08' 27.3" W 117° 55' 33.8"

An aerial photo of the site with sampling locations is presented on Figure 12 (Google Earth™ mapping services).

Total Samples Collected to Date – Four.

Pre Existing Structural Best Management Practices: The majority of the site drains to the center, and a sump pump is installed that pumps water to a collection pond. The water from this pond is treated through a filtration and ozone system, and the water is reused on-site. Only a small amount of the property drains off the site.

Wet season sampling 2008 – Year 1: No samples were collected, as there was no runoff from the property.

Dry season sampling 2008 – Year 2: The site was visited twice on August 12 and on September 23, 2008 and no runoff was observed. No samples were collected.

Wet season sampling 2008 – Year 2: A sample was collected on November 26 and December 15, 2008.

General Chemistry Exceedances:

During the 2008 monitoring year, concentrations of ammonia, nitrate, sulfate, and TDS exceeded CWIL benchmarks in the sample collected during the November 26, 2008 sampling event, and nitrate, sulfate, and TDS in the sample collected during the December 15, 2008 sampling event.

Pesticide Exceedances:

During the 2008 monitoring year, concentrations of chlorpyrifos exceeded CWIL benchmark in the sample collected during the December 15, 2008 sampling event.

USEPA ALB guidelines were exceeded for Permethrin in samples collected during the November 26 and December 15, 2008 sampling events.

Toxicity Exceedances: None.

WQMP Implementation:

Although the revised WQMP has yet to be approved by the LARWQCB, the following actions have been implemented.

Colorama Nursery has begun to implement BMPs from the Pest Management, Nutrient Management, and Erosion and Runoff Management categories; work will be completed by March 2009. The grower's main objectives were to lower the amount of pesticides and nutrient used, and limit sediment runoff. The grower will reduce the frequency of pyrethroid pesticides sprayed, supplementing pyrethroids with biopesticides when possible. To limit the amount of sediment runoff, vegetation will be planted in the main culvert exiting the site. Fertilizer injectors will be lowered to minimize the amount of nutrient in irrigation water, supplementing the decrease in irrigation fertilizer slow release soil fertilizer will be increased.

One additional BMP for the Irrigation Management category will be initiated, as required for the large site group, by July 1, 2009. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-150 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.12 SY NURSERY, INC. – NGA SITE #168

Crop Type: General Ornamental
Sub basin: San Gabriel River
City: Cerritos
Irrigated Acres: 4.75 Acres
Irrigation: Drip, sprinklers
Approximate Water Use: 78,500 gallons per month
Fertilizers/amount: 21-7-6 / 6,000 lb per year
Discharge: Stormwater and Irrigation
Approximate sample site GPS location: N 33° 51' 3.2" W 118° 4' 55.2"

An aerial photo of the site with sampling locations is presented on Figure 13 (Google Earthtm mapping services).

Total Samples Collected to Date – Five.

Wet season sampling 2008 – Year 1: A sample was collected on January 25, 2008.

Dry season sampling 2008 – Year 2: The site was visited on August 12, September 24, and September 25, 2008 and no runoff was observed. No samples were collected.

Wet season sampling 2008 – Year 2: The site was visited on November 26, 2008 and no runoff was observed. A sample was collected on December 15, 2008.

General Chemistry Exceedances:

During the 2008 monitoring year, concentrations of nitrate, and TDS exceeded CWIL benchmarks in the samples collected during the January 25, 2008 sampling event and nitrate in the December 15, 2008 sampling event.

Pesticide Exceedances:

During the 2008 monitoring year, concentrations of DDT derivatives exceeded CWIL benchmarks in samples collected during the January 25 and December 15, 2008 sampling events.

Toxicity Exceedances: None.

WQMP Implementation:

Although the revised WQMP has yet to be approved by the LARWQCB, the following actions have been implemented.

SY Nursery has begun to implement BMPs for the Pest Management Category. The grower's main objective was to reduce pesticide runoff. Pesticide spraying is not conducted prior to forecasted storm events and all fertilizers, pesticides, and spray equipment are kept in enclosed storage sheds.

One BMP from the Irrigation Management or Erosion and Runoff Management categories will be initiated, as required for the medium sized site group, by July 1, 2009. One additional Irrigation Management or Erosion and Runoff Management BMP will also be initiated, as the site reported irrigation runoff on its NOI. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-168 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.13 TY NURSERY – YARD #6 – NGA SITE #176

Crop Type: General Ornamental
Sub basin: Santa Monica Bay
City: Redondo Beach
Irrigated Acres: 2 Acres
Irrigation: Drip, sprinkler
Approximate Water Use: 255,000 gallons per month
Fertilizers/amount: Unknown
Discharge: Stormwater only
Approximate sample site GPS location: N 33° 51' 24.4" W 118° 22' 51.6"

An aerial photo of the site with sampling locations is presented on Figure 14 (Google Earth[™] mapping services).

Total Samples Collected to Date – One.

Pre Structural Existing Best Management Practices: Catch basins are in place to collect excess run off from the property, and the boundary of the property is lined with sand bags and control measures to alleviate runoff of water and sediment.

Wet season sampling 2008 – Year 1: No samples were collected, as there was no runoff from the property.

Dry season sampling 2008 – Year 2: The site was visited on August 13 and September 24, 2008 and no runoff was observed. No samples were collected.

Wet season sampling 2008 – Year 2: The site was visited twice on November 26 and on December 15, 2008 and no runoff was observed. No samples were collected.

General Chemistry Exceedances: None.

Pesticide Exceedances: None.

Toxicity Exceedances: None.

WQMP Implementation:

Although the revised WQMP has yet to be approved by the LARWQCB, the following actions have been implemented.

TY Nursery has begun to implement BMPs for the Erosion and Runoff Management category; work was scheduled to be completed by January 2009. The grower's main objective was to lower the amount of sediment runoff. Driveways will be paved with a base material to limit the amount of sediment leaving the sloped entrance. In addition, straw wattles will be placed on both sides of the driveway to minimize sediment runoff. The main catch basin will be properly sized and maintained for storm events.

All required BMPs for the small sized growers have been met. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-176 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.14 ULTRA GREENS NURSERY – NGA SITE #178

Crop Type: General Ornamental/Tree
Sub basin: Los Angeles River
City: Sylmar
Irrigated Acres: 10 Acres
Irrigation: Drip, hand
Approximate Water Use: Unknown
Fertilizers/amount: 2 tons per year
Discharge: Irrigation and Storm water
Approximate sample site GPS location: N 34° 18' 02.00" W 118° 25' 12.56"

An aerial photo of the site with sampling locations is presented on Figure 15 (Google Earthtm mapping services).

Total Samples Collected to Date – One.

Wet season sampling 2008 – Year 1: Site was not included in sampling group at this time.

Dry season sampling 2008 – Year 2: Site was not included in sampling group at this time.

Wet season sampling 2008 – Year 2: The site was visited on November 26, 2008 and no runoff was observed. A sample was collected on December 15, 2008.

General Chemistry Exceedances:

During the 2008 monitoring year, concentrations of chloride, nitrate, sulfate, and TDS exceeded CWIL benchmarks in the sample collected during the December 15, 2008 sampling event.

Pesticide Exceedances:

During the 2008 monitoring year, concentrations of DDT derivatives exceeded CWIL benchmarks in the sample collected during the December 15, 2008 sampling event.

Toxicity Exceedances: None.

WQMP Implementation:

Ultra Greens Nursery is not currently initiating BMPs, as the site was just recently incorporated into the program. Pending approval of the WQMP from the LARWQCB, the site will begin to implement BMPs as outlined for the large grower group in the WQMP. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-178 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.15 VALLEY SOD FARMS – NGA SITE #184

Crop Type: Sod farm
Sub basin: Los Angeles River
City: North Hills
Size: 36 Acres
Irrigation: Sprinkler
Approximate Water Use: 1,650,000 gallons per month
Fertilizers/amount: 21-7-14 / 43,200 lb per year
Discharge: Irrigation and stormwater
Approximate sample site GPS location: N 34° 13' 26.14" W 118° 29' 29.76"

An aerial photo of the site with sampling locations is presented on Figure 16 (Google Earth™ mapping services).

Total Samples Collected to Date – Two.

Wet season sampling 2008 – Year 1: Site was not included in sampling group at this time.

Dry season sampling 2008 – Year 2: Site was not included in sampling group at this time.

Wet season sampling 2008 – Year 2: A sample was collected on November 26 and December 15, 2008.

General Chemistry Exceedances: None.

Pesticide Exceedances:

During the 2008 monitoring year, concentrations of DDT derivatives and total chlordane exceeded CWIL benchmarks in the sample collected during the December 15, 2008 sampling event.

Toxicity Exceedances: None.

WQMP Implementation:

Valley Sod Farms, North Hills is not currently initiating BMPs, as the site was just recently incorporated into the program. Pending approval of the WQMP from the LARWQCB, the site will begin to implement BMPs as outlined for the large grower group in the WQMP. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-184 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.16 WEST COVINA WHOLESALE – DAMIEN – NGA SITE #189

Crop Type: General Ornamental
Sub basin: San Gabriel River
City: La Verne
Size: 1.5 Acres
Irrigation: Drip
Approximate Water Use: 160,000 gallons per month
Fertilizers/amount: 21-5-12 / 2,000 lb per year
Discharge: Irrigation and stormwater
Approximate sample site GPS location: N 34° 06' 59.1" W 117° 47' 03.9"

An aerial photo of the site with sampling locations is presented on Figure 17 (Google Earthtm mapping services).

Total Samples Collected to Date – Two.

Wet season sampling 2008 – Year 1: A sample was collected on January 4, 2008.

Dry season sampling 2008 – Year 2: The site was visited on August 12 and September 23, 2008 and no runoff was observed. No samples were collected.

Wet season sampling 2008 – Year 2: The site was visited twice on November 26, 2008 and no runoff was observed. A sample was collected on December 15, 2008.

General Chemistry Exceedances:

During the 2008 monitoring year, concentrations of nitrate exceeded CWIL benchmark in the sample collected during the December 15, 2008 sampling event.

Pesticide Exceedances:

During the 2008 monitoring year, concentrations of DDT derivatives and total chlordane exceeded CWIL benchmarks in the sample collected during the January 4, 2008 sampling event.

Toxicity Exceedances:

Statistically significant toxicity was seen for Selenastrum in the sample collected on December 15, 2008. Follow up TIE testing was conducted on the December 15, 2008, results indicated that particulates bound toxicants and organophosphorus compounds contributed to the toxicity observed in the sample.

WQMP Implementation:

Although the revised WQMP has yet to be approved by the LARWQCB, the following actions have been implemented.

West Covina Nursery has begun to implement BMPs for the Erosion and Runoff Management category. The grower's main objective was to limit the amount of sediment runoff. To limit the amount of sediment runoff, the grower has constructed a soil berm and planted vegetation along the fence line. In addition, gravel has been placed on the outside of the fence line to minimize sediment runoff.

All required BMPs for the small sized growers have been met. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-189 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.17 HAGGSTROM VINEYARD– NGA SITE #210

Crop Type: Vineyard
Sub basin: Santa Monica Bay
City: Malibu
Size: 1.6Acres
Irrigation: Drip
Approximate Water Use: Updated NOI pending
Fertilizers/amount: 52-0-0 / 40 lb per year
Discharge: Storm water
Approximate sample site GPS location: N 34° 06' 59.1" W 117° 47' 03.9"

An aerial photo of the site with sampling locations is presented on Figure 18 (Google Earth™ mapping services).

Total Samples Collected to Date – One.

Wet season sampling 2008 – Year 1: Site was not included in sampling group at this time.

Dry season sampling 2008 – Year 2: Site was not included in sampling group at this time.

Wet season sampling 2008 – Year 2: A sample was collected on November 26, 2008. The site was visited on December 15, 2008 and no runoff was observed.

General Chemistry Exceedances:

During the 2008 monitoring year, concentrations of sulfate and TDS exceeded CWIL benchmarks in the sample collected during the November 26, 2008 sampling event.

Pesticide Exceedances: None.

Toxicity Exceedances: None.

WQMP Implementation:

Haggstrom Vineyards is not currently initiating BMPs, as the site was just recently incorporated into the program. Pending approval of the WQMP from the LARWQCB, the site will begin to implement BMPs as outlined for the small grower group in the WQMP. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-210 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.18 SCHOELKOPF VINEYARD– NGA SITE #224

Crop Type: Vineyard
Sub basin: Santa Monica Bay
City: Malibu
Size: 0.8 acres
Irrigation: Drip
Approximate Water Use: Unknown
Fertilizers/amount: 20 lb per acre
Discharge: Storm water
Approximate sample site GPS location: N 34° 02' 18.42" W 118° 51' 35.44"

An aerial photo of the site with sampling locations is presented on Figure 19 (Google Earth™ mapping services).

Total Samples Collected to Date – Zero.

Wet season sampling 2008 – Year 1: Site was not included in sampling group at this time.

Dry season sampling 2008 – Year 2: Site was not included in sampling group at this time.

Wet season sampling 2008 – Year 2: The site was visited twice on November 26 and on December 15, 2008 and no runoff was observed. No samples were collected.

General Chemistry Exceedances: None.

Pesticide Exceedances: None.

Toxicity Exceedances: None.

WQMP Implementation:

Schoelkopf Vineyards is not currently initiating BMPs, as the site was just recently incorporated into the program. Pending approval of the WQMP from the LARWQCB, the site will begin to implement BMPs as outlined for the small grower group in the WQMP. BMPs required universally throughout the LAILG will be initiated by July 1, 2009, if not previously implemented.

BMP effectiveness will be evaluated through the use of laboratory analytical results for detected constituents at the site, along with field measurements and observations. Table 13-224 presents historical comparative laboratory analytical results at the site. Since growers often cycle the types of pesticides that are utilized, and individual discharge levels of Pyrethroids were not established in the CWIL, Pyrethroid pesticides were tabulated as a sum of all detections. The total sum of all DDT and its derivatives, along with Chlordane and its derivatives were also tabulated. This methodology should help to identify if BMPs are reducing the discharge of pesticides as a whole, regardless of the specific pesticide used or type of historical pesticide leaving the property.

5.19 VALLEY SOD FARM, ENCINO AND VALLEY CREST TREE – FORMER NGA #182 AND #183

These sites have been removed from the program, as they are no longer operating growers. Samples were collected from each site in January, 2008, prior to the decommissioning of each. Samples collected from the former Valley Sod Farm contained concentrations of the historical pesticide DDT and its derivatives, and the sample from the former Valley Crest Tree Company contained a small amount of Dimethoate. There were no General Chemistry exceedances or Pyrethroid pesticides detected in the runoff water at either site.

6.0 QUALITY ASSURANCE

Quality assurance and quality control for the project was implemented as outlined in the QAPP submitted to LARWQCB on January 31, 2007. Throughout this reporting period, a total of 169 out of 3,330 tested analytes had data qualifiers, for an overall, unqualified completeness of 94.9 percent. Of the 169 analytes that were qualified, 99 of them were evaluated as estimated, for an overall percentage of complete un-estimated data at 97.0 percent. The overall percentage of complete, un-estimated data throughout the program has been 97.4 percent. Concentrations above the MDL, but below the RL (“J flags”) were not considered to be data qualifiers. The lack of a sample collected at a site was also not considered in the completeness calculations for the program. Variations for each sample and analyte are footnoted on the appropriate tables. The following discusses QA findings in detail.

6.1 SAMPLE HANDLING

PW personnel labeled, secured, and transported all samples, in a cooler chilled with ice, to ABC and CRG laboratories within the acceptable holding times. Laboratory personnel signed the COC upon delivery, and copies were made for PW to be kept on file at the office. All samples collected this reporting period were delivered within appropriate holding times, however, the lab inadvertently ran one sample (LAILG-NGA 31-1) outside of the acceptable holding time limits for phosphates. This sample has been flagged accordingly in the appropriate tables.

6.2 FIELD QUALITY CONTROL

6.2.1 Equipment Blanks

Equipment blanks were collected on August 12, September 23, November 26, and December 15, 2008. An equipment blank sample was inadvertently missed during the month of January 2008 due to general confusion regarding the determination between “batch” sizes and “sampling events.” Due to the multiple storms events that were monitored, PW determined that a batch size of twenty samples was more applicable to the collection of blanks so as to reduce operating costs. However, after the last storm, a total of twenty-two samples ended up being collected, which would have required an additional set of field quality control samples. PW appropriately changed its pre-field protocol, and quality control samples are collected at the first mobilization to each storm event, regardless of the amount of samples collected previously. The appropriate number of quality control samples was collected for the remainder of the year.

An equipment Laboratory analytical results reported low-level concentrations for General Chemistry constituents, as well as low levels of five Pyrethroid pesticides. All detected constituents from site samples that were less than 10 times the result detected in the equipment blanks were flagged as estimated. Laboratory analytical results for detected concentrations in equipment blanks are presented on Table 14.

Currently, PW is unsure of the source of contamination detected in the equipment blanks. Distilled water is used for the blanks, as it should be the most pure. A blank sample of the distilled water being used for cleaning will be collected during the next sampling event to insure that it is not the source of contamination. PW has changed its decontamination protocol to include a more thorough cleaning, including using scrub brushes, using a higher concentration of detergent surfactants, incorporating multiple washes and rinses, and ensuring that all equipment is cleaned prior to storage and placed in sealed plastic bags. If concentrations are detected in the next sampling event, all equipment will be replaced.

6.2.2 Field Blanks

Field blanks were collected on August 12, September 23, November 26, and December 15, 2008. A field blank sample was inadvertently missed during the month of January 2008 due to general confusion regarding the determination between “batch” sizes and “sampling events.” Due to the multiple storms events that were monitored, PW determined that a batch size of twenty samples was more applicable to the collection of blanks so as to reduce operating costs. However, after the last storm, a total of twenty-two samples ended up being collected, which would have required an additional set of field quality control samples. PW appropriately changed its pre-field protocol, and quality control samples are collected at the first mobilization to each storm event, regardless of the amount of samples collected previously. The appropriate number of quality control samples was collected for the remainder of the year.

Laboratory analytical results reported low-level concentrations for General Chemistry constituents, as well as low levels of two Pyrethroid pesticides. All constituents results from site samples that were less than 10 times the result detected in the field blanks were flagged as estimated. Laboratory analytical results for detected concentrations in equipment blanks are presented on Table 14.

Currently, PW is unsure of the source of contamination detected in the field blanks. Field decontamination will follow the same protocol as stated above, and all equipment will be replaced if concentrations are detected in future sampling events.

6.2.3 Field Duplicates

Field duplicates were collected on August 13, September 23, November 26, and December 15, 2008. A field duplicate sample was inadvertently missed during the month of January 2008 due to general confusion regarding the determination between “batch” sizes and “sampling events.” Due to the multiple storms events that were monitored, PW determined that a batch size of twenty samples was more applicable to the collection of blanks so as to reduce operating costs. However, after the last storm, a total of twenty-two samples ended up being collected, which would have required an additional set of field quality control samples. PW appropriately changed its pre-field protocol, and quality control samples are collected at the first mobilization to each storm event, regardless of the amount of samples collected previously. The appropriate number of quality control samples was collected for the remainder of the year.

Laboratory analytical results for the duplicate collected on August 13, 2008 reported concentrations outside the acceptance limit of 25 percent RPD for general water quality constituents, OC pesticides, OP pesticides, and Pyrethroid pesticides. The data for 15 of the 74 analytes on this sample have been appropriately flagged as estimated on all tables. All laboratory analytical results for the duplicate samples collected on September 23, November 26, and December 15, 2008 were within the acceptance limits. The cause of the duplicate sample being outside of acceptable RPD limits was identified by CRG as being a lack of homogeneity in

the sample collected from runoff. This is most likely due to the varying amount of soil solids in the collected sample, as the sample that reported a higher value of TSS had a corresponding high level of constituents known to bind to soil particles. Laboratory analytical results for detected concentrations in field duplicates are presented on Tables 5 and Tables 8-10.

6.3 LABORATORY QUALITY CONTROL

6.3.1 Procedural Blanks

Procedural blanks were prepared and analyzed by CRG on a minimum frequency of one per batch. Procedural blank samples were analyzed for all analytes of interest. No analytes were detected in procedural blanks during 2008.

6.3.2 Accuracy

Accuracy of data was indicated by analysis of matrix spikes, surrogate spikes, reference materials, and control materials on a minimum frequency of one per batch. Matrix spikes were performed for all analytes at a frequency of one sample per sampling event, and were performed on select general chemistry constituents in every sample collected.

Laboratory data accuracy for this reporting period was high, with only 68 out of 3,330 analytes qualified, and one values considered estimated, for an accuracy of approximately 98.0%. Variations from data accuracy acceptance ranges are footnoted on Tables 5 and Tables 8-10. Sixty-seven of the 68 qualifications were from matrix interference from an unknown substance in the sample. Since the associated method blank spike or surrogate compound was in control, the sample data was reported without further clarification. This data was not reported as estimated. The one estimated analyte had matrix interference from an unknown source, as blank spikes were also out of control.

6.3.3 Precision

Precision of data was indicated by analysis of duplicate matrix spikes, blank spikes, and/or duplicate test sample analysis on a minimum frequency of one per batch. Matrix spike duplicates were performed for all analytes on the procedural blanks and for general chemistry constituents on field samples. Matrix spikes duplicates were performed for pesticides at a frequency of one sample per sampling event.

Data precision for this reporting period was high, with only 24 out of 3,330 analytes qualified, and 13 values considered estimated, for an accuracy of approximately 99.3%. Variations from data precision acceptance ranges are footnoted on Tables 5 and Tables 8-10. Eleven of the estimated values were in the same sample, and were caused by lack of sample homogeneity. The field duplicate of this sample was also outside of acceptance range, indicating that analytes in the site runoff were in a constant state of flux. This data was reported as estimated. In addition, two

analytes were reported as estimated that were from an unknown laboratory error. Eleven samples were qualified because either the sample concentrations were above matrix spike concentrations or were below ten times the MDL, which do not allow for accurate RPD values. These results were footnoted, although reported results for these analytes were considered valid.

6.4 EQUIPMENT/MATERIAL CLEANING AND CALIBRATION

Field monitoring equipment was cleaned and calibrated prior to each monitoring event. Equipment was not recalibrated if the previous sampling team did not utilize it during dry season sampling. The dissolved oxygen and temperature probes could only be factory calibrated, and thus were not calibrated before each sampling event. Calibration logs for field monitoring equipment is presented on Table 15.

Calibration frequencies and procedures for laboratory analytical equipment was performed by ABC and CRG, as outlined in the QA manual for each laboratory.

7.0 DISCUSSION / CONCLUSION

The submittal of an updated QAPP and MRP is pending until final operating data from the new sampling sites is obtained and verified. Tentatively, the submittal of these documents should occur during the month of March 2009. During this sampling year, irrigated runoff at the sampling sites during the dry season was noticeably less. During 2008, a total of three dry season samples were collected; during 2007 eight dry season samples were collected. The number of wet season samples collected during 2008 was comparable to the wet season samples collected during 2007. However, sampling events in 2008 were able to be completed over two storm events, instead of the multiple storm events it took to cover all the sites in 2007. Generally, analytical results did not show an increasing or decreasing trend at sampling sites. After the WQMP is approved by the LARWQCB, BMP tracking and implementation will go into full scale operation for the LAILG. Future laboratory analytical results and field monitoring data will be evaluated to determine if implemented BMPs have been having a beneficial effect at protecting waters of the State.

PW prepared a *WQMP*, dated January 15, 2009, that outlined future actions to be taken by the LAILG to maintain compliance with the CWIL. Below is an excerpt taken from the WQMP in order to obtain this goal.

Based on field monitoring and laboratory analytical results to date, a couple of general goals have been set across for the LAILG. The first goal is to reduce the use of water used during irrigation. Ideally almost every site should be able to reduce their water use or implement BMPs to help control runoff if irrigation use cannot be feasibly reduced. Currently approximately 25 percent of sites report having irrigated runoff, and a general goal of reducing this to 10 percent by the end of the program will try to be obtained.

Another general goal for the entire group is to reduce erosion from each property, and thus the associated turbidity and TSS seen during field monitoring and laboratory analysis. A number of the detected pesticides are known to have a high affinity to attach to soil and a low solubility to water, and detections of these pesticides are most likely from soil leaving the site due to erosion. There are a number of tactics to reduce the sediment load coming from sampling sites, and the effectiveness of each tactic will be evaluated throughout the remainder of the monitoring program to help educate growers on the BMPs that have been observed to have the greatest beneficial impact on TSS and turbidity concentrations and readings.

The BMPQs from all members of the LAILG will be evaluated statistically upon initial receipt, and once again at the end of the current monitoring program. Statistical analysis will help show a general trend on what growers are implementing at sites, and what general steps growers are taking throughout the group to be in compliance with the CWIL.

If a correlation is seen between future sampling results and individual site settings and operational practices, PW will attempt to group and prioritize members enrolled in the LAILG based on anticipated potential impacts to water quality. This will help to narrow future education endeavors within the NGA to address the most pressing concerns at sites, and help to identify sites that could be focused on for educational requirements.

At this time, educational deficiencies appear to be the largest barrier to implementing effective BMPs throughout the group. PW and NGA are currently developing a series of BMP educational courses for members of the group to attend. These courses are being developed to target the growers using a hands-on approach in regards to BMP implementation and evaluation. Additionally, informational documents are being developed regarding BMPs required throughout the LAILG. Documents and courses will be made available to all members of the LAILG, in order to facilitate better understanding of BMPs by personnel involved in growing operations.

TABLE 1

**SAMPLING EVENT SCHEDULE
 NURSERY GROWERS ASSOCIATION
 LOS ANGELES COUNTY IRRIGATED LANDS GROUP
 CONDITIONAL WAIVER, BOARD ORDER NO. R4-2005-0080**

TASK	SCHEDULE		Number of Sampling Events
	Wet Season	Dry Season	
Monitoring* - year 1	Jan. - May 15, 2007, and Oct. 15, 2007 - May 15, 2008	May 15 - Oct. 15, 2007	4
Submit Annual Monitoring Report - year 1	February 28, 2008. Only data collected during 2007 calendar year to be included in report.		
Monitoring* - year 2	Oct. 15, 2008 - May 15, 2009	May 15 - Oct. 15, 2008	4
Submit Annual Monitoring Report - year 2	February 28, 2009. Only data collected during 2008 calendar year to be included in report.		
Monitoring* - year 3	Oct. 15, 2009 - May 15, 2010	May 15 - Oct. 15, 2009	2
Submit Annual Monitoring Report - year 3	February 28, 2010. Only data collected during 2009 calendar year to be included in report.		
Monitoring* - year 4	Oct. 15 - Nov. 3, 2010	May 15 - Oct. 15, 2010	2
Submit Annual Monitoring Report - year 4	February 1, 2011		

* Toxicity testing required once per season

TABLE 2
LIST OF COLLECTED SAMPLES
NURSERY GROWERS ASSOCIATION
LOS ANGELES COUNTY IRRIGATED LANDS GROUP
CONDITIONAL WAIVER, BOARD ORDER NO. R4-2005-0080

OWNER/TENANT	NGA #	PROPERTY ADDRESS	ACREAGE (Irrigated)	YEAR 1 ¹				YEAR 2 ²			
				Dry Season Event #1	Dry Season Event #2	Wet Season Event #1	Wet Season Event #2	Dry Season Event #1	Dry Season Event #2	Wet Season Event #1	Wet Season Event #2
ABC Nursery, Inc.	4	424 E. Gardena Boulevard, Gardena	19.19	ns	ns	12/7/07	1/23/08	8/13/08	ns	ns	12/15/08
Acosta Growers Inc.	13	16412 Wedgeworth Dr, Hacienda Hights	4.50	ns	ns	12/18/07	ns	ns	ns	ns	ns
Boething Treeland Farms, Inc.	19	23475 Long Valley Road, Woodland Hills	32.00	8/13/07	ns	12/18/07	1/5/08	8/12/08	ns	11/26/08	ns
Carlos Soto, Jr	25	600 W. Alondra Blvd, Gardena	3.50	ns	ns	ns	ns	ns	ns	11/26/08	ns
Coiner Nursery	31	285 San Fidel, La Puente	62.00	ns	ns	ns	ns	ns	9/23/08	11/26/08	12/15/08
G Hernandez-New Westgrowers	53	1601 S. Santa Fe Ave, Compton	3.50	ns	ns	12/18/07	1/23/08	ns	ns	ns	ns
H&H Nursery of Lakewood	64	6220 Lakewood Boulevard, Lakewood	2.50	ns	ns	1/23/08	ns	ns	ns	ns	12/15/08
M Downard-Rainbow Garden Nursery	109/110	1132 & 1135 S Grand Avenue, Glendora	7.00	ns	ns	1/4/08	ns	ns	ns	ns	12/15/08
Norman's Nsy-Broadway South	124	1550 E Broadway, San Gabriel	2.38	8/13/07	ns	12/7/07	1/5/08	ns	ns	11/26/08	12/15/08
Norman's Nsy-Rosemead	130	475 Rosemead Blvd, S. El Monte	16.56	8/6/07	ns	12/7/07	1/24/08	ns	ns	11/26/08	12/15/08
R Wilson-Colorama Wholesale Nursery	150	1025 N. Todd Avenue, Azusa	26.00	ns	9/25/07	12/7/07	ns	ns	ns	11/26/08	12/15/08
SY Nursery Inc.	168	19900 S Pioneer Blvd, Cerritos	4.75	8/13/07	9/28/07	11/30/07	1/25/08	ns	ns	ns	12/15/08
T-Y Nursery-Yard #6	176	Between Paulina/Prospect, Redondo Beach	2.00	ns	ns	12/18/07	ns	ns	ns	ns	ns
Ultra Greens	178	13102 Maclay Street, Sylmar	10.00	Site not included as a sampling location.						ns	12/15/08
Valley Crest Tree Company	182	16202 Yarnell St. and 16222 Filbert St, Sylmar	16.00	ns	ns	12/7/07	1/24/08	Site no longer in operation.			
Valley Sod Farms, Inc.	183	6301 Balboa Boulevard, Encino	60.00	8/6/07	9/26/07	12/18/07	1/5/08	Site no longer in operation.			
Valley Sod Farms, Inc.	184	16405 Chase Street, North Hills	36.00	Site not included as a sampling location.						11/26/08	12/15/08
West Covina Wholesale-Damien	189	3424 Damien Ave, La Verne	0.50	ns	ns	1/4/08	ns	ns	ns	ns	12/15/08
Haggstrom Vinyard	210	6415 Busch Drive, Malibu	1.6	Site not included as a sampling location.						11/26/08	ns
Schoelkopf Vineyard	224	31499 Pacific Coast Highway, Malibu	0.80	Site not included as a sampling location.						ns	ns

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.

Highlighted cells are samples collected since the first years AMR

NGA #
 ns
 ni
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Number associated with the site on Figure 1
 Not sampled due to minimal rainfall and/or no runoff observed during sampling event.
 Not included, sample results not yet recieved.
 Growers are no longer a sampling location.

TABLE 3

**LIST OF CONSTITUENTS FOR TESTING
NURSERY GROWERS ASSOCIATION
LOS ANGELES COUNTY IRRIGATED LANDS GROUP
CONDITIONAL WAIVER, BOARD ORDER NO. R4-2005-0080**

CONSTITUENT	UNITS	SUBDIVISION
Flow	varies	Field
pH	pH units	Field
Temperature	°C	Field
Dissolved Oxygen	mg/L	Field
Turbidity	NTU	Field
Electrical Conductivity	µS	Field
Total Dissolved Solids	mg/L	General Chemistry
Total Suspended Solids	mg/L	General Chemistry
Chloride	mg/L	General Chemistry
Ammonia	mg/L	General Chemistry
Nitrate-Nitrogen	mg/L	General Chemistry
Toxaphene	ng/L	Pesticide
Pyrethroids	ng/L	Pesticide
Toxicity	TUc	Toxicity
Phosphate	mg/L	General Chemistry
Sulfate	mg/L	General Chemistry
Organophosphate Suite ¹	ng/L	Pesticide
Organochlorines Suite ²	ng/L	Pesticide

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

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 Ald

mg/l milligrams per liter
ng/l nanograms per liter
°C degrees celsius
TUc chronic toxic unit
NTU Nephelitic Turbidity Units

TABLE 4
WATER QUALITY OBJECTIVES*
GENERAL CHEMISTRY
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Watershed/stream reach		NGA Site #	Ammonia	TDS	Sulfate	Chloride	Nitrogen
Los Angeles River							
1	Between Figueroa and Willow St.	53	a)	1,500	350	150	8
2	Above Figueroa St.	184, 19, 183	a)	950	300	150	8
3	Rio Hondo above Santa Ana Freeway	130, 124	a)	750	300	150	8
8	Pacoima Wash above Pacoima spreading grounds	178, 182	a)	250	30	10	MUN
San Gabriel River							
1	Between Firestone Blvd. and San Gabriel River Estuary	168, 64	a)	MUN			
2	Between Ramona and Firestone Blvd.	13, 31, 189, 109/110	a)	750	300	150	8
3	Between Morris Dam and Ramona Blvd.	150	a)	450	100	100	8
Dominguez Channel		4, 25	a)	MUN			
Santa Monica Bay		176, 210, 224	a)	MUN			
USEPA Municipal Drinking Water Standards			a)	500	250	400	10

Strikethrough indicates that site is no longer a sampling location

* 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.

TABLE 5
SUMMARY OF SAMPLES COLLECTED - YEAR 2
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 ^{H,M3}	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 ^{EB}	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 purposes; data was not deemed to be qualified as estimated by the QA Officer.

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|------|--|----|--|
| CWIL | Conditional waiver for irrigated lands, order #R4-2005-008 | 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. |
| 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 | | |
| 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 concentration in the sample exceeding the spike concentration. |
| M3 | Detection of the analyte was difficult due to matrix interference | | |

TABLE 5 cont.

**SUMMARY OF SAMPLES COLLECTED - YEAR 1
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 FBLL	NGA-LAILG-FBLL	8/21/07	0.01 ^J	nd	nd	0.016 ^J	nd	nd	nd	nd	nd	nd
NGA EQBLI	NGA-LAILG-EQBLI	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	1.4457 ^B	11.35^B	57.38 ^B	1.64 ^B	317 ^B	2.24 ^B	0.858 ^B	28.7 ^B
NGA #183-DUP	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 #EQUIP	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 ^E	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
NGA #182-DUP	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 #EQUIP	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 purposes; data was not deemed to be qualified as estimated by the QA Officer.

- CWIL Conditional waiver for irrigated lands, order #R4-2005-008
- 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

TABLE 6
WATER QUALITY OBJECTIVES*
CWIL LIMITS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

CONSTITUENT	UNITS	DAILY MAXIMUM / INSTANTANEOUS
Dissolved Oxygen	mg/L	(a) ¹
Turbidity	NTU	(a) ¹
Total Suspended Solids	mg/L	(a) ¹
Chloride	mg/L	(a) ¹
Nitrate-Nitrogen ²	mg/L	(a) ¹
Ammonia-Nitrogen ²	mg/L	(a) ¹
Aldrin	µg/L	0.00013 ³
alpha-BHC	µg/L	0.0039 ³
beta-BHC	µg/L	0.014 ³
gamma-BHC	µg/L	0.019 ³
Chlordane	µg/L	0.00057 ³
4,4' - DDT	µg/L	0.00059 ³
4,4' - DDE	µg/L	0.00059 ³
4,4' - DDD	µg/L	0.00083 ³
Dieldrin	µg/L	0.00014 ³
Endosulfan I	µg/L	0.0056 ⁴
Endosulfan II	µg/L	0.0056 ⁴
Endosulfan Sulfate	µg/L	110 ³
Endrin	µg/L	0.036 ⁴
Heptachlor	µg/L	0.00021 ³
Heptachlor Epoxide	µg/L	0.00010 ³
Toxaphene	µg/L	0.0002 ⁴
Chlorpyrifos	µg/L	0.025
Diazinon	µg/L	0.10
Toxicity	TUc ⁵	1.0

(a)¹ Limits shall be based on the surface water and groundwater basin objectives and/or beneficial uses listed in the Conditional Waiver

² Limits are subject to any updated Basin Plan objectives

³ The limits are based on California Toxics Rule (USEPA, May 18, 2000), Human Health for Consumption of Water and Organisms criteria

⁴ The limits are based on California Toxics Rule, Aquatic Life, Freshwater Chronic criteria

⁵ Toxic Unit-Chronic is the reciprocal of the effluent concentration that causes 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

NTU Nephelometric Turbidity Units

TABLE 7

**WATER QUALITY OBJECTIVES
AQUATIC LIFE BENCHMARKS*
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

CONSTITUENT	UNITS	ACUTE FISH	CHRONIC FISH	ACUTE INVERTIBRATES	CHRONIC INVERTIBRATES
Dimethoate	ng/L	3,000,000	430,000	21,500	40,000
Disulfoton	ng/L	19,500	39,000	1,950	37
Ethoprop	ng/L	150,000	24,000	22,000	800
Malathion	ng/L	2,000	4,000	250	60
Methyl Parathion	ng/L	500,000	80,000	70	20
Phorate	ng/L	500	1,000	300	210
Permethrin	ng/L	395	300	19.5	39

* Based on USEPA Aquatic Life Benchmarks. Represent the most sensitive toxicity endpoints determined by the EPA.
ng/L nanograms per Liter

TABLE 8, cont.

SUMMARY OF SAMPLES COLLECTED - 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	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	12.1	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
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 FBLL	NGA-LAILG-FBLL	8/21/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA EQBLL	NGA-LAILG-EQBLL	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	5	50	1
RL			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 estimated by the QA Officer.

CWIL Conditional waiver for irrigated lands, order #R4-2005-008
 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

TABLE 8, cont

SUMMARY OF SAMPLES COLLECTED - YEAR 1
 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	Oxychlorthane	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 EQBLL	NGA-LAILG-EQBLL	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 estimated by the QA Officer.

CWIL Conditional waiver for irrigated lands, order #R4-2005-008
 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 limit
 D Procedural blank Matrix Spike Duplicate RPD out of limit
 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

TABLE 9, cont.

SUMMARY OF SAMPLES COLLECTED - YEAR 1
 ORGANOPHOSPHORUS PESTICIDES
 NURSERY GROWERS ASSOCIATION
 LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Organophosphorus Pesticides																		
			Bolstar	Chlorpyrifos	Demeton	Diazinon	Dichlorvos	Dimethoate	Disulfoton	Ethoprop	Fenclorphan	Fensulfotion	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	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 EQBL	NGA-LAILG-EQBL	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 ^D	nd	nd	nd	nd	nd ^D	nd	nd	nd	nd	nd ^D	nd	nd	
NGA #183	ILG-#183	9/26/07	nd	nd	nd	nd	nd	nd ^D	nd	nd	nd	nd	nd ^D	nd	nd	nd	nd	nd ^D	nd	nd	
NGA #183-DU	ILGNGA-#Dup	9/26/07	nd	nd	nd	nd	nd	nd ^D	nd	nd	nd	nd	nd ^D	nd	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 ^D	nd	nd	nd	nd	nd ^D	nd	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	8.9	nd	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 estimated by the QA Officer.

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

TABLE 10, cont.

SUMMARY OF SAMPLES COLLECTED - YEAR 1
 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 FBLL	NGA-LAILG-FBLL	8/21/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA EQBLL	NGA-LAILG-EQBLL	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 estimated by the QA Officer.

CWIL Conditional waiver for irrigated lands, order #R4-2005-008
 na not analyzed
 J Estimated concentration, results above MDL but below RL

TABLE 11
SUMMARY OF SAMPLES COLLECTED - YEAR 2
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 successful TIE (Typically needs a TUC of greater than 2).
NR not required

TABLE 11, cont.

**SUMMARY OF SAMPLES COLLECTED - 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 #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	IP	
NGA #4	NGA #4-LAILG-1	12/7/07	0.00%	Y	40.00%	Y	Y	IP	
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	IP	
NGA #124	NGA-#124-LAILG-2	12/7/07	0.00%	Y	100.00%	N	Y	IP	
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	IP	
NGA #13	LAILG-NGA#13-1	12/18/07	10.00%	Y	21.67%	Y	N	IP	
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
IP In progress

TABLE 12

**SUMMARY OF SAMPLES COLLECTED - YEAR 2
FIELD MONITORING RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample ID	Date	Time (24hr)	*Approximate Flow Cross Section (ft ²)	Flow (ft/s)	Temperature (°C)	pH	E.C. (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
NGA #110	LAILG-NGA#110-1	1/4/08	9:40	0.33	0.70	16.1	7.35	253	7.32	25.9
			9:42		0.70	16.9	7.29	259	7.89	25.6
			9:45		0.70	16.8	7.38	310	9.00	29.1
NGA #189	LAILG-NGA#189-1	1/4/08	10:27	0.11	1.60	13.8	7.40	178	7.10	152.0
			10:30		1.60	14.2	7.81	180	7.10	153.0
			10:33		1.60	14.0	6.99	179	7.11	156.0
NGA #19	LAILG-NGA#19-3	1/6/08	nm	0.0035	0.5	10.8	8.20	159	10.84	0
			nm		0.5	10.1	8.22	160	11.16	0
			nm		0.5	10.0	8.22	160	11.03	0
NGA #124	LAILG-NGA#124-3	1/5/08	9:15	0.33	0.75	12.9	7.68	818	10.32	85
			9:17		0.7	12.4	7.65	823	10.5	69
			9:18		0.71	12.4	7.63	819	10.47	66
NGA #183	LAILG-NGA#183-4	1/5/08	5:50	2.67	1	12.1	8.34	152	10.33	3
			5:54		1	12.1	7.9	137	10.18	0
			5:58		1	11.9	7.79	128	10.15	0
NGA #4	LAILG-NGA#4-2	1/23/08	8:16	0.014	0.33	12.1	6.59	53.1	8.35	23.6
			8:18		0.33	12.8	6.5	53	8.9	19.7
			8:20		0.33	13	6.57	53.7	7.8	20.4
NGA #53	LAILG-NGA#53-2	1/23/08	7:46	0.11	1.6	11.9	6.61	82.9	8.32	250
			7:48		1.6	12.6	6.65	86.2	7.77	232
			7:50		1.6	13	6.73	86.8	7.58	227
NGA #64	LAILG-NGA#64-1	1/23/08	6:40	nm	nm	12.8	6.59	181	7.42	81.5
			6:42		nm	12.5	6.66	123	8.7	85.9
			6:44		nm	12.7	6.62	121	7.87	84
NGA #130	LAILG-NGA#130-3	1/24/08	13:20	0.44	nm	12.5	6.94	622	6.75	0.14
			13:22		nm	12.9	7.1	605	6.75	0.11
			13:25		nm	13.2	7.13	603	6.69	0.58

* 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

TABLE 12, cont.

**SUMMARY OF SAMPLES COLLECTED - YEAR 2
FIELD MONITORING RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample ID	Date	Time (24hr)	*Approximate Flow Cross Section (ft ²)	Flow (ft/s)	Temperature (°C)	pH	E.C. (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
NGA #182	LAILG-NGA#182-2	1/24/08	16:00	0.220	1.33	11.2	7.08	137	7.52	6.9
			16:05		1.33	10.9	6.94	137	8	10.7
			16:08		1.33	10.8	6.99	137	7.97	7.7
NGA #168	LAILG-NGA#168-4	1/25/08	11:58	0.165	nm	14.9	7.83	832	8.98	168
			12:00		nm	15	7.93	830	8.31	162
			12:02		nm	15.1	7.95	829	9.23	155
NGA #19	LAILG NGA 19-4	8/12/08	8:32	0.007	0.67	21.1	8.07	1039	63.0	203.0
			8:34		0.89	21.3	7.87	1083	60.3	239.0
			8:36		0.58	22.7	7.93	1567	49.4	145.0
NGA #4	LAILG NGA 4-3	8/13/08	12:21	0.003	0.10	34.7	7.03	2.25	54.4	156.0
			12:43		0.08	33.6	7.21	2.31	77.5	125.0
			12:47		0.06	33.7	7.05	2.39	58.5	121.0
NGA #31	LAILG NGA 31-1	9/23/08	17:00	0.056	0.60	28.0	7.46	892	108.1	39.6
			17:02		0.75	27.6	7.93	743	116.0	36.0
			17:03		1.00	26.8	8.03	805	115.3	31.7
NGA #184	LAILG NGA 184-1	11/26/08	4:30	0.208	0.84	14.1	7.24	342	11.0	96.0
			4:32		0.89	14.1	7.19	319	11.2	98.1
			4:35		1.25	14.0	7.22	315	10.6	88.3
NGA #25	LAILG NGA 25-1	11/26/08	5:50	0.222	1.56	16.2	7.02	405	39.0	32.0
			6:00		1.53	16.5	7.00	396	50.9	26.0
			6:15		1.59	16.3	6.83	389	48.5	33.0
NGA #124	LAILG NGA 124-4	11/26/08	6:30	0.065	0.36	14.0	7.79	0.780	10.58	94.0
			6:35		0.44	14.0	7.72	0.779	10.47	93.0
			6:40		0.48	14.0	7.73	0.779	10.61	95.0
NGA #150	LAILG NGA 150-3	11/26/08	8:25	0.088	0.103	16.2	6.05	3.59	9.97	10.15
			8:28		0.108	16.1	6.07	3.59	9.91	13.80
			8:32		0.100	16.1	6.07	3.58	9.90	9.80

* 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 celsius NTU Nephelometric Turbidity Units
uS microsiemens nm not monitored

TABLE 12, cont.

**SUMMARY OF SAMPLES COLLECTED - YEAR 2
FIELD MONITORING RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample ID	Date	Time (24hr)	*Approximate Flow Cross Section (ft ²)	Flow (ft/s)	Temperature (°C)	pH	E.C. (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
NGA #19	LAILG NGA 19-5	11/26/08	11:30	0.013	0.82	15.4	7.04	706	10.5	264
			11:32		0.87	15.4	7.88	684	11.9	221
			11:33		1.33	15.4	7.09	535	10.0	203
NGA #130	LAILG NGA 130-4	11/26/08	9:30	0.007	0.47 gpm	15	8.05	0.87	8.95	205
			9:35		0.46 gpm	15	8.04	0.86	8.71	214
			9:40		0.48 gpm	15	8.02	0.83	7.56	213
NGA #31	LAILG NGA 31-2	11/26/08	12:07	0.148	4.64	17.3	8.20	0.18	7.80	999
			12:12		4.98	17.3	8.17	0.58	7.83	999
			12:17		4.54	17.2	8.10	0.16	7.39	531
NGA #210	LAILG NGA 210-1	11/26/08	9:00	0.013	0.980	16.5	7.85	11.51	8.02	16.80
			9:02		0.793	16.3	7.31	8.30	9.01	6.43
			9:04		0.925	15.6	8.37	5.75	8.59	4.08
NGA #150	LAILG-NGA 150-4	12/15/08	14:10	0.042	0.29	11.9	6.12	2.25	0.71	27.6
			14:13		0.32	11.7	6.12	2.25	0.75	139.0
			14:17		0.24	11.6	6.12	2.26	0.75	153.0
NGA #124	LAILG-NGA 124-5	12/15/08	17:20	0.024	0.78	11.0	7.17	559	2.34	162
			17:24		0.89	10.4	7.23	554	2.51	143
			17:29		0.83	10.4	7.25	541	2.56	160
NGA #189	LAILG-NGA 189-2	12/15/08	11:00	-	-	9.1	7.08	4.14	0.16	68.0
			11:05		-	8.9	7.23	3.79	0.19	67.3
			11:07		-	8.8	7.25	3.87	0.20	67.0
NGA # 110	LAILG-NGA 110-2	12/15/08	13:05	0.009	0	11.0	6.85	442	0.40	23.8
			13:12		0	10.7	7.27	406	0.42	25.2
			13:15		0	10.8	7.45	439	0.42	25.1
NGA #31	LAILG-NGA 31-3	12/15/08	13:00	0.115	1.17	14.8	7.17	439	4.80	230
			13:01		1.42	15.1	7.13	511	4.60	211
			13:02		1.17	15.2	6.98	436	4.80	225

* 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

gal/min	gallons per minute	mg/L	milligrams per liter
ft/s	feet per second	NTU	Nephelometric Turbidity Units
°C	degrees celcius	-	data not collected
uS	microsiemens		

TABLE 12, cont.

**SUMMARY OF SAMPLES COLLECTED - YEAR 2
FIELD MONITORING RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample ID	Date	Time (24hr)	*Approximate Flow Cross Section (ft ²)	Flow (ft/s)	Temperature (°C)	pH	E.C. (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
NGA #184	LAILG-NGA 184-2	12/15/08	16:15	0.027	0.195	14.0	6.57	281	4.9	110
			16:16		0.195	14.3	6.89	310	8.0	130.5
			16:18		0.183	14.2	6.65	211	5.6	350
NGA #130	LAILG-NGA 130-5	12/15/08	13:45	0.000	66 gpm	14.2	6.91	450	4.8	100
			13:48		59.5 gpm	14.3	6.89	501	4.6	109
			13:49		53.2 gpm	15.0	6.72	311	4.7	98
NGA #178	LAILG-NGA 178-1	12/15/08	9:45	0.002	0.97	15.1	7.15	771	5.0	75
			9:48		0.98	15.0	7.16	702	4.9	101
			9:51		1.19	15.2	7.23	735	4.7	100
NGA #64	LAILG-NGA 64-2	12/15/08	12:05	-	**	17.0	6.64	291	6.4	29
			12:17		**	17.2	6.64	264	6.1	16
			12:25		**	17.1	6.66	260	6.0	21
NGA #168	LAILG-NGA 168-5	12/15/08	9:50	0.005	2.02	12.4	6.38	7.36	6.5	431
			9:55		1.68	12.0	6.64	7.30	6.3	433
			10:00		1.47	12.0	6.70	7.28	6.4	431
NGA #4	LAILG-NGA 4-4	12/15/08	14:10	0.083	0.26	16.0	6.61	143.5	6.7	130
			14:15		0.31	15.9	6.64	145.8	6.5	130
			14:25		0.30	15.9	6.53	146.0	6.1	131

* 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
 ** Hand pump used to extract sample, no flow calculator
 gal/min gallons per minute mg/L milligrams per liter
 ft/s feet per second NTU Nephelometric Turbidity Units
 °C degrees celcius - data not collected
 uS microsiemens

TABLE 12, cont.

**SUMMARY OF SAMPLES COLLECTED - YEAR 1
FIELD MONITORING RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample ID	Date	Time (24hr)	*Approximate Flow Cross Section (ft ²)	Flow	Temperature (°C)	pH	E.C. (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
NGA #130	NGA-#130-LAILG-1	8/6/07	12:15	na	~4.25 gal/min	27.0	7.71	1331	6.12	38
			12:20	na		26.7	7.82	1315	6.51	42
			12:25	na		26.6	7.84	1312	6.48	37
NGA #183	NGA-#183-LAILG-1	8/6/07	13:45	0.36	3.79 ft/s	34.1	8.00	403	8.41	72
			13:50		3.56 ft/s	34.0	8.04	399	8.43	83
			13:55		3.19 ft/s	34.2	8.01	398	8.12	82
NGA #19	NGA-#19-LAILG-1	8/13/07	12:50	0.15	0.74 ft/s	35.1	8.67	848	9.43	563
			12:53		0.71 ft/s	35.0	8.69	833	9.81	492
			12:56		0.67 ft/s	35.0	8.70	834	9.78	522
NGA #124	NGA-#124-LAILG-1	8/13/07	10:38	na	~75-100 gal total	28.9	7.75	1112	6.13	118
			10:41	na		28.9	7.70	1086	6.29	131
			10:45	na		28.9	7.67	1091	6.26	114
NGA #168	NGA-#168-LAILG-1	8/13/07	7:35	na	< 0.08 ft/s	20.6	8.48	894	5.53	958
			7:40	na	< 0.08 ft/s	20.7	8.83	790	5.62	999
			7:45	na	< 0.08 ft/s	20.7	8.91	788	5.59	978
NGA #150	NGA-#150-LAILG	9/25/07	9:10	0.016	0.33 ft/s	21.3	6.51	2450	5.93	11
			9:16		0.35 ft/s	21.4	6.71	2650	6.10	126
			9:20		0.32 ft/s	21.8	6.69	2680	5.98	72
NGA #183	LAILG-NGA#183-2	9/26/07	11:30	0.42	0.30 ft/s	23.5	6.38	823	6.25	47
			11:33		0.33 ft/s	23.6	6.50	737	6.14	45
			11:36		0.33 ft/s	23.9	6.64	735	6.08	47

* 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
gal/min gallons per minute mg/L milligrams per liter
ft/s feet per second NTU Nephelometric Turbidity units
°C degrees celcius
uS microsiemens

TABLE 12, cont.

**SUMMARY OF SAMPLES COLLECTED - YEAR 1
FIELD MONITORING RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample ID	Date	Time (24hr)	*Approximate Flow Cross Section (ft ²)	Flow	Temperature (°C)	pH	E.C. (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
NGA #168-2	LAILG-NGA-#168-2	9/28/07	8:30	0.0003	< 0.08 ft/s	20.9	7.76	798	5.98	999
			8:35		< 0.08 ft/s	21.1	7.79	790	6.21	999
			8:40		< 0.08 ft/s	21.1	7.99	787	6.27	999
NGA #168	NGA-#168-LAILG-3	11/30/07	15:30	0.002	< 0.08 ft/s	14.4	7.97	1200	10.03	89
			15:08		< 0.08 ft/s	14.2	8.00	1200	10.17	104
			15:11		< 0.08 ft/s	14.1	8.00	1200	10.15	100
NGA #182	NGA #182-LAILG-1	12/7/07	6:42	0.006	1.50 ft/s	11.6	7.64	720	8.10	11
			6:44		1.50 ft/s	11.6	7.59	740	8.20	11
			6:46		1.50 ft/s	11.5	7.56	740	8.10	11
NGA #4	NGA #4-LAILG-1	12/7/07	7:45	0.046	0.60 ft/s	14.1	7.15	281	nm	80
			7:57		0.60 ft/s	13.9	7.11	286	nm	41
			8:00		0.60 ft/s	13.9	7.14	279	nm	41
NGA #130	NGA #130-LAILG-2	12/7/07	8:10	na	~4.25 gal/min	14.7	6.22	1280	nm	60
			8:12	na		14.9	6.20	1285	nm	59
			8:15	na		15.0	6.24	1291	nm	59
NGA #150	NGA #150-LAILG-2	12/7/07	6:42	0.46	3.7 ft/s	13.0	5.97	861	10.28	17
			6:47		4.2 ft/s	12.9	6.21	839	10.10	18
			6:52		4.5 ft/s	12.9	6.37	836	9.99	18
NGA #124	NGA-#124-LAILG-2	12/7/07	6:00	0.09	1.50 ft/s	13.3	5.90	753	nm	44
			6:02		1.50 ft/s	13.3	5.92	758	nm	44
			6:04		1.50 ft/s	13.3	5.91	759	nm	44

* 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
gal/min gallons per minute mg/L
ft/s feet per second NTU
°C degrees celcius
uS microsiemens
milligrams per liter
Nephelometric Turbidity units

TABLE 12, cont.

**SUMMARY OF SAMPLES COLLECTED - YEAR 1
FIELD MONITORING RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample ID	Date	Time (24hr)	*Approximate Flow Cross Section (ft ²)	Flow	Temperature (°C)	pH	E.C. (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
NGA #176	NGA-#176-LAILG-1	12/18/07	16:34	na	~ 1 gal/min	15.7	6.60	1362	10.10	nm
			16:36	na		15.6	6.70	1364	10.70	nm
			16:38	na		15.8	6.90	1360	10.30	nm
NGA #183	LAILG-NGA#183-3	12/18/07	20:55	1.38	0.11 ft/s	11.5	6.60	855	10.94	158
			20:59		0.12 ft/s	11.7	6.70	849	10.98	148
			21:05		0.12 ft/s	11.7	6.80	844	10.97	164
NGA #19	LAILG-NGA#19-2	12/18/07	21:37	na	~ 1.3 gal/min	11.7	6.70	912	10.29	895
			21:38	na		11.9	6.80	921	10.30	910
			21:39	na		12.0	6.50	911	10.31	906
NGA #13	LAILG-NGA#13-1	12/18/07	6:45	0.014	2.26 ft/s	18.6	6.58	225	10.18	240
			6:48		2.18 ft/s	18.5	6.37	198	10.25	233
			6:50		2.49 ft/s	18.6	6.29	171	10.10	234
NGA #53	LAILG-NGA#53-1	12/18/07	18:15	na	~ 1.5 gal/min	13.7	6.60	260	10.41	nm
			18:18	na		13.3	6.90	270	10.50	nm
			18:20	na		13.8	7.10	270	10.32	nm

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

gal/min	gallons per minute	mg/L	milligrams per liter
ft/s	feet per second	NTU	Nephelometric Turbidity units
°C	degrees celcius		
uS	microsiemens		

TABLE 13-4

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 4
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)				Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Dicofol	Total Chlordane	Chlorpyrifos	Diazinon	Dichlorvos	Malathion	Total sum of all detected Pyrethroids
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	nd	nd	1,122.6	175.2	11.3	nd	2,107.5
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	nd	nd	153.8	2,212.1	nd	15,453.2	1,389.4
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	485.7	38.8	nd	6,058.9	nd	1,148,630	26,753.7
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	nd	99.5	590.9	859	nd	102,357.2	96,588.0

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

TABLE 13-13

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 13
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	No Detected DDT and Derivatives	No Detected Chlordanes	No OP Pesticides Detected	Total sum of all detected Pyrethroids
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				873.9

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

TABLE 13-19

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 19
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)			Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	Total Chlordane	Chlorpyrifos	Diazinon	Malathion	Total sum of all detected Pyrethroids
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	nd	nd	nd	nd	nd	0
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	nd	2.4	nd	15	2,291.3	1,814
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	5.6	14	nd	nd	nd	6.8
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	nd	1.3	nd	nd	nd	91.8
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	24.7	6.6	130.1	32.6	nd	2,236.2

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

TABLE 13-25

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 25
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	Total Chlor	No OP Pesticides Detected	Total sum of all detected Pyrethroids
NGA # 25	LAILG-NGA 25-1	11/26/08	0.85	21.99	1.1712	5.31	51.95	1.338	166	1.38	1.641	168.5	nd	16.2		132.7

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

TABLE 13-31

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 31
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)		Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	Total Chlordane	Chlorpyrifos	Malathion	Total sum of all detected Pyrethroids
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	13.5	15.2	nd	nd	78.6
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	nd	17.9	nd	nd	460.2
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	nd	nd	44.5	3,433.9	52.6

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

TABLE 13-53

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 53
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	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	0.7	4.72	0.2973	0.49	12.51	0.57	132	0.75	1.188	124				11.5
NGA #54	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				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

TABLE 13-64

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 64
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	Toxaphene	No OP Pesticides Detected	Total sum of all detected Pyrethroids
NGA #64	LAILG-NGA64-1	1/23/08	0.2	3.82	0.2818	3.83	101.1	0.3	nd	0.46	0.393	76	0	0	No OP Pesticides Detected	47.4
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	43.3	666		110

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

TABLE 13-109

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 109/110
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)		Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	No Detected Chlordanes	Chlorpyrifos	Diazinon	Total DDT and Derivatives
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	nd	No Detected Chlordanes	88.5	534.8	0
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	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

TABLE 13-124

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 124
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES COUNTY IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	Total Chlordane	Malathion	Total sum of all detected Pyrethroids
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	51.5	34	nd	136.9
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	37.4	11.4	nd	3,704.3
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	nd	17.1	nd	1,898.6
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	19.3	8.2	nd	7,536.1
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	10.4	13.6	85.3	19,281.3

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

TABLE 13-130

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 130
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)	OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	Malathion	Total sum of all detected Pyrethroids
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	141.9	nd	0.0
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	nd	nd	1,393.1
NGA #130	LAILG-NGA#130-3	1/24/08	0.15	58.12	0.264	3.64	107.65	0.26	383	0.27	0.314	16	nd	nd	184.6
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	nd	nd	1,757.8
NGA # 130	LAILG-NGA 130-5	12/15/08	0.52	46.43	0.4392	11.81	67.8	0.481	258	0.47	0.512	59.7	nd	85.2	376.9

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

TABLE 13-150

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 150
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)	OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Aldrin	Chlorpyrifos	Total sum of all detected Pyrethroids
NGA #150	NGA-#150-LAILG	9/25/07	52.4	95.9	26.84	355.6	87	22.5	2,279	23	24	57	nd	nd	25,304.0
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	35.2	nd	1,822.4
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	nd	nd	11,070.5
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	nd	90.2	91,831.4

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

TABLE 13-168

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 168
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)			OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	Total Chlordane	Dicofol	Malathion	Total sum of all detected Pyrethroids
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	0	nd	nd	nd	1,379.1
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	118	nd	52	nd	964.0
NGA #168	NGA-#168-LAILG-3	11/30/07	0.48	101.43	2.1635	30.81	245.04 ^E	2.67	951	3.13	3.548	nd	2.7	5.6	nd	8.9	466.1
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	19.2	nd	nd	nd	187.9
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	11.8	nd	nd	38.9	1,375.9

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

TABLE 13-176

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 176
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)	OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	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	5.5	56.82	0.7145	3.85	293.12	0.54	680	12.21	3.447	6,168			873.9

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

TABLE 13-178

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 178
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)	OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	No OP Pesticides Detected	Total sum of all detected Pyrethroids
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	25.3		4.9

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

TABLE 13-184

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 184
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	Total Chlor	No OP Pesticides Detected	Total sum of all detected Pyrethroids
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	nd	nd	No OP Pesticides Detected	3.1
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	22	4.2		30.7

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

TABLE 13-189

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 210
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	Total Chlor	Malathion	Total sum of all detected Pyrethroids
NGA # 189-1	LAILG-NGA189-1	1/4/08	0.59	7.29	0.6851	1.83	26.43	1.33	192	1.8	2.475	20	22.5	14.9	26.9	0
NGA # 189-2	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	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

TABLE 13-210

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 210
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)	OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	No OP Pesticides Detected	Malathion	Total sum of all detected Pyrethroids
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	No OP Pesticides Detected	56.4	279.8

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

TABLE 13-224

**SUMMARY OF SAMPLES COLLECTED - LAILG SITE 224
 COMPARATIVE LABORATORY ANALYTICAL RESULTS
 NURSERY GROWERS ASSOCIATION
 LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)									OC Pesticides (ng/L)	OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	-	-
SITE HAS NOT BEEN SAMPLED, DUE TO LACK OF IRRIGATION AND STORMWATER RUNOFF														

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

TABLE 14

**SUMMARY OF QUALITY ASSURANCE SAMPLES COLLECTED - YEAR 2
DETECTED CONSTITUENTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry (mg/L)										Pyrethroids (ng/L)				
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Bifenthrin	Danitol	L-Cyhalothrin	Fenvalerate	Fluvalinate
Equip Blank	LAILG-NGA-PFB	8/12/08	0.03	nd	nd	nd	nd	nd	nd	0.01	nd	1.5 ^{J,Q3}	nd	nd	0.5	nd	nd
Field Blank	LAILG-NGA- FB	8/13/08	nd	nd	nd	0.08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Equip Blank	LAILG-NGA-PFB	9/23/08	nd	11.5	0.008 ^{H,J}	0.15	0.09	nd	60	nd ^H	nd ^H	2.3 ^{J,Q3}	nd	nd	14	nd	nd
Field Blank	LAILG-NGA- FB	9/23/08	nd	11.63	0.02 ^H	0.18	0.18	nd ^H	nd	nd ^H	nd ^H	0.8 ^J	nd	nd	nd	nd	nd
Equip Blank	LAILG-NGA-PFB	11/26/08	nd	0.16	nd	0.03 ^J	0.13 ^{Q6}	nd	2.0 ^{J,Q3}	nd	nd	0.8 ^J	0.7 ^J	8.1	nd	0.6 ^J	nd
Field Blank	LAILG-NGA- FB	11/26/08	nd	0.08	nd	0.04 ^J	0.1	nd	24	0.01 ^J	nd	1.3 ^J	nd	nd	12.3	nd	nd
Equip Blank	LAILG-NGA-PFB	12/15/08	nd	1.83	nd	0.02 ^J	0.16	nd	154	nd	nd	1.0 ^J	nd	nd	2.1	0.8 ^J	1.6 ^J
Field Blank	LAILG-NGA- FB	12/15/08	nd	0.51	nd	0.03 ^J	0.17	nd	18	nd	nd	nd	nd	nd	0.7 ^J	nd	1.2 ^J
MDL			0.01	0.01	0.0075	0.01	0.01	0.016	0.1	0.01	0.016	0.5	0.5	0.5	0.5	0.5	0.5
RL			0.05	0.05	0.01	0.05	0.05	0.05	5	0.01	0.05	5	2	2	2	2	2

H Sample received and /or analyzed past the recommended holding time.
 J Estimated concentration, results above MDL but below RL
 MDL Method Detection Limits
 RL Reporting Limits
 nd not detected
 mg/L milligrams per liter

ng/L nanograms per liter
 Q3 RPD values are not accurate and not applicable because the results for R1 and/or R2 are lower than ten times the MDL.

Q6 CRG's Quality Assurance Program Document allows for 5% of the target compounds greater than ten times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and cannot be attributed to a specific issue.

TABLE 14, cont.

**SUMMARY OF QUALITY ASSURANCE SAMPLES COLLECTED - YEAR 1
DETECTED CONSTITUENTS*
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP**

Site	Sample #	Date	General Chemistry			
			Ammonia	Nitrate	Sulfate	TDS
NGA BLANK	NGA LAILG-BLANK-1	8/13/07	0.04 ^J	nd	nd	32
NGA FB LI	NGA-LAILG-FB LI	8/21/07	0.01 ^J	0.016 ^J	nd	nd
NGA EQB LI	NGA-LAILG-EQB LI	8/21/07	nd	nd	nd	nd
NGA #EQUIP	ILGNGA-#Equip	9/26/07	nd	nd	nd	5
NGA #FIELD	ILGNGA-#FIELD-2	9/28/07	nd	nd	nd	nd
NGA #EQUIP	NGA-equip blank	12/7/07	nd	nd	1.13	nd
NGA #FIELD	Field Blank-2	12/18/07	nd	nd	nd	6
MDL			0.01	0.01	0.01	0.1
RL			0.05	0.05	0.05	5

* Reported in milligrams per liter (mg/L)
 MDL Method Detection Limits
 RL Reporting Limits
 nd not detected
 J Estimated concentration, results above MDL but below RL

TABLE 15

**CALIBRATION LOG
EQUIPMENT SET NUMBER 1
NURSERY GROWERS ASSOCIATION**

MEASUREMENT	INSTRUMENT	DATE	CALIBRATION STANDARD	PRE / POST CALIBRATION MEASUREMENT
pH	Oakton	1/4/08	4	4.23 / 4.0
			7	7.25 / 7.0
			10	10.89 / 10.0
EC	Oakton	1/4/08	447 uS	478 / 447
			1500 uS	1523 / 1500
Turbidity	LaMotte	1/4/08	10 NTU	10.9 / 10.0
			200 NTU	225 / 200
pH	Oakton	1/23/08	4	4.45 / 4.0
			7	7.0 / 7.0
			10	10.2 / 10.0
EC	Oakton	1/23/08	447 uS	449 / 447
			1500 uS	1506 / 1500
Turbidity	LaMotte	1/23/08	10 NTU	10.5 / 10.0
			200 NTU	233 / 200
pH	Oakton	1/24/08	4	4.89 / 4.0
			7	7.2 / 7.0
			10	10.2 / 10.0
EC	Oakton	1/24/08	447 uS	465 / 447
			1500 uS	1589 / 1500
Turbidity	LaMotte	1/24/08	10 NTU	10.2 / 10.0
			200 NTU	256 / 200
pH	Oakton	8/12/08	4	4.25 / 4.0
			7	7.34 / 7.0
			10	10.1 / 10.0
EC	Oakton	8/12/08	447 uS	375 / 447
			1500 uS	1499 / 1500
Turbidity	LaMotte	8/12/08	10 NTU	9.59 / 10.0
			200 NTU	199 / 200
pH	Oakton	8/13/08	4	4.29 / 4.0
			7	7.23 / 7.0
			10	10.5 / 10.5
EC	Oakton	8/13/08	447 uS	440 / 447
			1500 uS	1552 / 1500
Turbidity	LaMotte	8/13/08	10 NTU	10.2 / 10.0
			200 NTU	208 / 200

uS
NTU

microsiemens
Nephelometric Turbidity Units

TABLE 15 continued

**CALIBRATION LOG
EQUIPMENT SET NUMBER 1
NURSERY GROWERS ASSOCIATION**

MEASUREMENT	INSTRUMENT	DATE	CALIBRATION STANDARD	PRE / POST CALIBRATION MEASUREMENT
pH	Oakton	1/4/08	4	4.75 / 4.0
			7	7.36 / 7.0
			10	10.98 / 10.0
EC	Oakton	1/4/08	447 uS	448 / 447
			1500 uS	1589 / 1500
Turbidity	LaMotte	1/4/08	10 NTU	10.2 / 10.0
			200 NTU	223 / 200
pH	Oakton	9/23/08	4	4.21 / 4.0
			7	7.25 / 7.0
			10	10.8 / 10.0
EC	Oakton	9/23/08	447 uS	449 / 447
			1500 uS	1489 / 1500
Turbidity	LaMotte	9/23/08	10 NTU	9.9 / 10.0
			200 NTU	198 / 200
pH	Oakton	11/25/08	4	4.25 / 4.0
			7	6.93 / 7.0
			10	9.68 / 10.0
EC	Oakton	11/25/08	447 uS	477 / 447
			1500 uS	1485 / 1500
Turbidity	LaMotte	11/25/08	10 NTU	11.5 / 10.0
			200 NTU	156 / 200
pH	Oakton	12/15/08	4	4.59 / 4.00
			7	7.11 / 7.00
			10	10.0 / 10.0
EC	Oakton	12/15/08	447 uS	456 / 447
			1500 uS	1523 / 1500
Turbidity	LaMotte	12/15/08	10 NTU	7.85 / 10.0
			200 NTU	159 / 200

uS
NTU

microsiemens
Nephelometric Turbidity Units

TABLE 15 continued

**CALIBRATION LOG
EQUIPMENT SET NUMBER 2
NURSERY GROWERS ASSOCIATION**

MEASUREMENT	INSTRUMENT	DATE	CALIBRATION STANDARD	PRE / POST CALIBRATION MEASUREMENT
pH	Oakton	1/24/08	4	4.56 / 4.0
			7	7.02 / 7.0
			10	10.6 / 10.0
EC	Oakton	1/24/08	447 uS	443 / 447
			1500 uS	1562 / 1500
Turbidity	LaMotte	1/24/08	10 NTU	10.96 / 10.0
			200 NTU	210 / 200
pH	Oakton	11/25/08	4	4.1 / 4.0
			7	7.19 / 7.0
			10	9.96 / 10.0
EC	Oakton	11/25/08	447 uS	449 / 447
			1500 uS	1562 / 1500
Turbidity	LaMotte	11/25/08	10 NTU	9.8 / 10.0
			200 NTU	222 / 200
pH	Oakton	12/15/08	4	4.89 / 4.00
			7	7.20 / 7.00
			10	9.89 / 10.0
EC	Oakton	12/15/08	447 uS	457 / 447
			1500 uS	1598 / 1500
Turbidity	LaMotte	12/15/08	10 NTU	8.25 / 10.0
			200 NTU	236 / 200

uS
NTU

microsiemens
Nephelometric Turbidity Units

TABLE 15, continued

**CALIBRATION LOG
EQUIPMENT SET NUMBER 3
NURSERY GROWERS ASSOCIATION**

MEASUREMENT	INSTRUMENT	DATE	CALIBRATION STANDARD	PRE / POST CALIBRATION
pH	Oakton	1/5/08	4	4.12 / 4.0
			7	7.12 / 7.0
			10	10.23 / 10.0
EC	Oakton	1/5/08	447 uS	478 / 447
			1500 uS	1569 / 1500
Turbidity	LaMotte	1/5/08	10 NTU	10.4 / 10.0
			200 NTU	236 / 200
pH	Oakton	11/25/08	4	4.25 / 4.00
			7	6.98 / 7.00
			10	10.98 / 10.0
EC	Oakton	11/25/08	447 uS	449 / 447
			1500 uS	1584 / 1500
Turbidity	LaMotte	11/25/08	10 NTU	10.98 / 10.0
			200 NTU	210 / 200

uS
NTU

microsiemens
Nephelometric Turbidity Units

TABLE 15, continued

**CALIBRATION LOG
EQUIPMENT SET NUMBER 4
NURSERY GROWERS ASSOCIATION**

MEASUREMENT	INSTRUMENT	DATE	CALIBRATION STANDARD	PRE / POST CALIBRATION MEASUREMENT
pH	Oakton	11/25/08	4	4.05 / 4.00
			7	7.25 / 7.00
			10	10.59 / 10.0
EC	Oakton	11/25/08	447 uS	425 / 447
			1500 uS	1498 / 1500
Turbidity	LaMotte	11/25/08	10 NTU	9.98 / 10.0
			200 NTU	209 / 200
pH	Oakton	12/15/08	4	4.89 / 4.00
			7	7.20 / 7.00
			10	9.89 / 10.0
EC	Oakton	12/15/08	447 uS	457 / 447
			1500 uS	1598 / 1500
Turbidity	LaMotte	12/15/08	10 NTU	8.25 / 10.0
			200 NTU	236 / 200

uS
NTU

microsiemens
Nephelometric Turbidity Units

APPENDIX A

**COMPLETE LIST OF LOS ANGELES COUNTY IRRIGATED LANDS
GROUP – NURSERY GROWERS ASSOCIATION**

APPENDIX B

PHOTOGRAPHIC DOCUMENTATION OF SAMPLING EVENTS

APPENDIX C

LABORATORY ANALYTICAL RESULTS AND CHAIN OF CUSTODY DOCUMENTATION - CRG

APPENDIX D

LABORATORY ANALYTICAL RESULTS AND CHAIN OF CUSTODY DOCUMENTATION - ABC

