

# San Diego Region Conditional Waiver for Hines Growers

## Quality Assurance Project Plan 2012

### 1.0 Project Management:

Hines Growers will contract with a qualified laboratory to provide third party sampling and laboratory analysis for the constituents of concern (fig. 1).

As documented in the Hines Growers MMRP the following contact information is provided at this time. Should this information change these changes will be made to this plan and resubmitted.

Title	Name Affiliation	Phone/E-mail
Project Manager	David Hernandez GM Hines Growers	760- 723-1500
	Fallbrook facility	<a href="mailto:Dhernandez@hineshort.com">Dhernandez@hineshort.com</a>
Primary Field Sampler	(AMEC to specify)	
Laboratory Manager	(Calscience to specify)	
Laboratory QA/QC	(Calscience to specify)	
Regional Board Staff	Barry Pulver, Cynthia Gorham	

#### Laboratory Information:

Name: Calscience Laboratories

Address: 7440 Lincoln Way Garden Grove CA

Phone 714-895-5494 Contact Name (Calscience to specify)

DHS Laboratory Certification No. (Calscience to specify) Expiration date

### 1.1 Project Objectives:

The objective of this document is to identify the quality assurance components that are necessary to implement the monitoring of constituents as contained in the Hines Growers MMRP for 2012. This objective will be achieved by using accepted US EPA methodologies to collect and analyze all listed constituents.

**Constituents to be sampled:**

<b>Constituent</b>	<b>Unit of Measure</b>
Flow	Taken from existing monitoring station CCF or gallons/min
pH	Standard pH units
Conductivity	Board staff to specify units
Temperature	Degrees F
Dissolved Oxygen	mg/L
Total Dissolved Solids	mg/L
Total Suspended Solids	mg/L
Ammonia as N	mg/L
Nitrate Nitrogen	mg/L
Nitrite Nitrogen	mg/L
Total Nitrogen (Keljdahl)	mg/L
Soluble Phosphorus	mg/L
Total Phosphorus	mg/L
Chloride	mg/L
Sulfate	mg/L
Dissolved Organic Carbon	mg/L
Dissolved Oxygen	mg/L

Detection levels and methods will be provided by Calscience Labs

**1.2 Documentation and Records**

All records generated by this project will be kept on file at Hines Growers Fallbrook facility. Records will include laboratory records. Laboratory will also keep a project file record and may be accessed by Hines project manager.

Copies of this QAPP will be distributed to all parties involved in this project including field sampling and laboratory personnel. Any future changes to this QAPP will be held and distributed accordingly. Copies of previous versions will be discarded to reduce chances of confusion. Monitoring information will be kept in Hines Growers files for five years.

## **2.0 Data Acquisition:**

Information on sampling location(s) can be found in the Hines Growers MMRP. Sample collection in the field will be done according to SWAMP procedures.

### **2.1 Samples Storage, preservation and Holding Times**

All sampling equipment and supplies will be provided by contracted laboratory. Sample containers will be pre cleaned and certified to be free of contamination according to US EPA specification for appropriate methods. All holding times for appropriate EPA methods will be observed.

All direct measurements (pH, conductivity, DO) will be done prior to sampling.

#### **QC samples collection**

Equipment blanks, field duplicates and matrix spikes will be collected at appropriate frequencies as per accepted US EPA and laboratory certification standards.

#### **Field Instrument Calibration:**

Field instruments will be calibrated daily to assure proper operation and accuracy. Manufacturer recommended calibration will also be done.

#### **Decontamination Process:**

All field sampling equipment that has been in contact with samples will be decontaminated after each use in a designated area.

#### **Field Documentation:**

All field activities will be consistently documented to defend any data used in decision making and to support data interpretation. This may include photo and field logs.

### **2.2 Sample Custody and Documentation:**

Sample custody will be traceable from the time of sample collection until results are reported.

**Documentation Procedures:**

The primary field sampler will be responsible for ensuring that field sampling teams adheres to proper custody and documentation procedures. A master sample logbook or field datasheets will be maintained for all samples collected for each event.

**Chain of Custody:**

A chain of custody form will be completed for each transfer of samples from one person or entity to another. The appropriate data will be recorded as per the COC form.

