

## EXHIBIT A – SCOPE OF WORK

### 1. Contracts and Permits.

- 1.1 Grantee shall document steps taken in soliciting and awarding any contracts to perform grant work and submit such documentation to the Grant Manager for review prior to contract award. Grantee shall provide Grant Manager with a copy of the awarded contract. Grantee shall document all contractor activities and expenditures in progress reports.
- 1.2 No work that is subject to California Environmental Quality Act (CEQA) or National Environmental Policy Act (NEPA) may proceed under this Agreement until documents that satisfy the CEQA/NEPA process are received by the Grant Manager.
- 1.3 Grantee shall secure all required permits for project work. No work that is subject to permitting may proceed under this Agreement until documents that satisfy the permitting process(es) are received by the Grant Manager.

### 2. Quality Assurance Project Plan and Monitoring Plan

- 2.1 Prepare and maintain a Quality Assurance Project Plan (QAPP). The QAPP must be approved by the RWQCB or SWRCB's QA Officer prior to implementation of any sampling or monitoring activities. No monitoring may occur prior to QAPP approval. Any costs related to monitoring data collected prior to and not supported by the approved QAPP will not be reimbursed.
- 2.2 Prepare and maintain a Monitoring Plan that describes the types of constituents to be monitored and the frequency/schedule for the monitoring activities. The Monitoring Plan shall be approved by the Grant Manager prior to implementation of any sampling or monitoring activities. No monitoring may occur prior to Monitoring Plan approval. The Grant Manager must approve any changes to the Monitoring Plan prior to implementation.

### 3. Work To Be Performed:

#### 3.1 Urban Pesticide Mitigation and Education Center Design

- 3.1.1 Design three (3) parallel residential landscapes with different levels of best management practice (BMP) implementation in the areas of irrigation, pesticide use, plant selection, buffers, landscape surfaces, and integrated pest management.
- 3.1.2 Submit draft landscape drawings to the Grant Manager for review and approval.
- 3.1.3 Submit final landscape drawings to the Grant Manager for review and approval.

#### 3.2 Urban Pesticide Mitigation and Education Center Construction

- 3.2.1 Secure a land use agreement with the University of California, Division of Agriculture and Natural Resources following University requirements for use of land at the South Coast Research and Extension Center (SCREC).
- 3.2.2 Construct three (3) parallel residential landscapes; each with a scaled-down model of a single story home, hardscapes (driveways, sidewalks, and planters), a functional lawn area and other plantings as described in the landscape drawings.
- 3.2.3 Provide "as built" landscape drawings if they differ from final drawings in subtask 3.1.3.
- 3.2.4 Conduct pre- and post-construction photomonitoring.

#### 3.3 Landscape BMP Evaluation at the Urban Pesticide Mitigation and Education Center

- 3.3.1 Identify key pesticides of concern for monitoring pesticide's properties and its potential to contaminate surface runoff.

- 3.3.2 Evaluate the effectiveness of controlling pests utilizing biopesticides compared to application of traditional pesticides.
- 3.3.3 Prepare and maintain a Sampling and Analysis Plan that will be used for sampling and analysis of runoff samples, surface water samples, and sediment samples to be taken as part of BMP evaluation and submit to the SWRCB's Grant Manager prior to implementation of any sampling and monitoring activities.
- 3.3.4 Conduct water quality sampling according to the approved QAPP and the Sampling and Analysis Plan.
- 3.3.5 Submit quarterly monitoring reports that summarize the monitoring results.
- 3.3.6 Submit a report summarizing the effectiveness of pesticide mitigation in surface runoff from urban landscapes implemented with various levels of structural and nonstructural BMPs.

#### 3.4 Workshops at Urban Pesticide Mitigation and Education Center

- 3.4.1 Develop a comprehensive database of contacts including e-mail addresses, using existing clientele lists from local watershed groups.
- 3.4.2 Establish a schedule for two (2) workshops/field days to train University of California Master Gardeners, professional landscapers, independent gardeners, pest control operators and public agencies.
- 3.4.3 Prepare and distribute announcements at least thirty (30) days in advance of a scheduled workshop to the appropriate clientele as well as publicizing at watershed stakeholder meetings.
- 3.4.4 Prepare agendas providing details on speakers and the subjects to be presented during the workshops.
- 3.4.5 Develop handouts to provide to the attendees focusing on methods and materials required to implement the BMPs discussed and shown at the workshop.
- 3.4.6 Conduct workshops at the Urban Pesticide Mitigation and Education Center located at SCREC in Irvine, California tracking attendance at the workshops utilizing an attendance list.
- 3.4.7 Request input from attendees via e-mail on their level of BMP adoption following the workshops and suggestions for future workshops.

#### 3.5 Countywide Pesticide Education and Outreach

- 3.5.1 Identify high traffic public and private facilities, such as parks, arboretums, trails, and large homeowners associations, in locations draining into sensitive waterbodies such as the Newport Bay.
- 3.5.2 Design and post signs in key locations identified in subtask 3.5.1 that inform and alert citizens to the risk of improper pesticide use and its effects on a specific local waterbody, such as "Protect your local beach – Runoff from this area flows directly to Huntington Beach".
- 3.5.3 Revise and, if necessary, develop additional Integrated Pest Management (IPM) outreach materials specifically directed at homeowners hiring pest control operators.

- 3.5.4 Disseminate outreach materials utilizing the expertise of two hundred forty (240) UC Master Gardeners at various garden shows, year-round venues such as school gardens, presentations to homeowner associations, and in the UC Master Gardener columns appearing in local newspapers.
- 3.5.5 Track the number of individuals reached at each event and provide the list to the RWQCB.

3.6 Implementation of a Pilot IPM Ant Control Program

- 3.6.1 Identify one (1) or two (2) cooperating entities willing to implement an IPM control program.
- 3.6.2 Develop a list of sites within the chosen city where ant populations are high and conventional pesticides are currently used for control.
- 3.6.3 Assist the city and/or the contracted professional pesticide applicator with the implementation of the IPM ant control program. The program takes advantage of the ants' behavior to forage by using bait stations containing various pesticides as attractants.
- 3.6.4 Develop a system of monitoring ant populations to determine which treatments are effectively reducing nuisance infestations in the identified areas.
- 3.6.5 Conduct water quality sampling according to the approved QAPP and the Sampling and Analysis Plan.
- 3.6.6 Submit quarterly monitoring reports that summarize the monitoring results.
- 3.6.7 Submit a summary of the effectiveness of the IPM ant control program in reducing pesticide applications as well as ant populations.

3.7 Pesticide Runoff Management Plan for the Newport Bay Watershed

- 3.7.1 Prepare a draft report that utilizes information and data collected in previous tasks to develop guidelines for the prevention of aquatic toxicity from urban pesticide use and submit to the SWRCB's Grant Manager for review and approval.
- 3.7.2 Submit a final report incorporating comments from the SWRCB's Grant Manager.