



**CITY OF ORANGE  
LOCAL IMPLEMENTATION PLAN (LIP)**

**SECTION A-9  
EXISTING DEVELOPMENT**



## SECTION A-9, EXISTING DEVELOPMENT

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### A-9.0 EXISTING DEVELOPMENT

The City has incorporated the Model Existing Development Program described in Section 9 of the DAMP as the basis for this section of its LIP. During the Third Term Permit period, several program components were developed to address the discharges that may occur from areas that are already developed. The Fourth Term Permit added the Residential and CIA/HOA programs. The existing development program consists of the following elements:

1. Industrial/Commercial Inspection Program
2. Food Facility Inspection Program
3. Mobile Business Program
4. Residential Program
5. Common Interest Areas/Homeowner Association Activities Program
6. Training and Outreach

These programs are described in detail in the following sections, which describe and outline guidelines, procedures and requirements for the City.

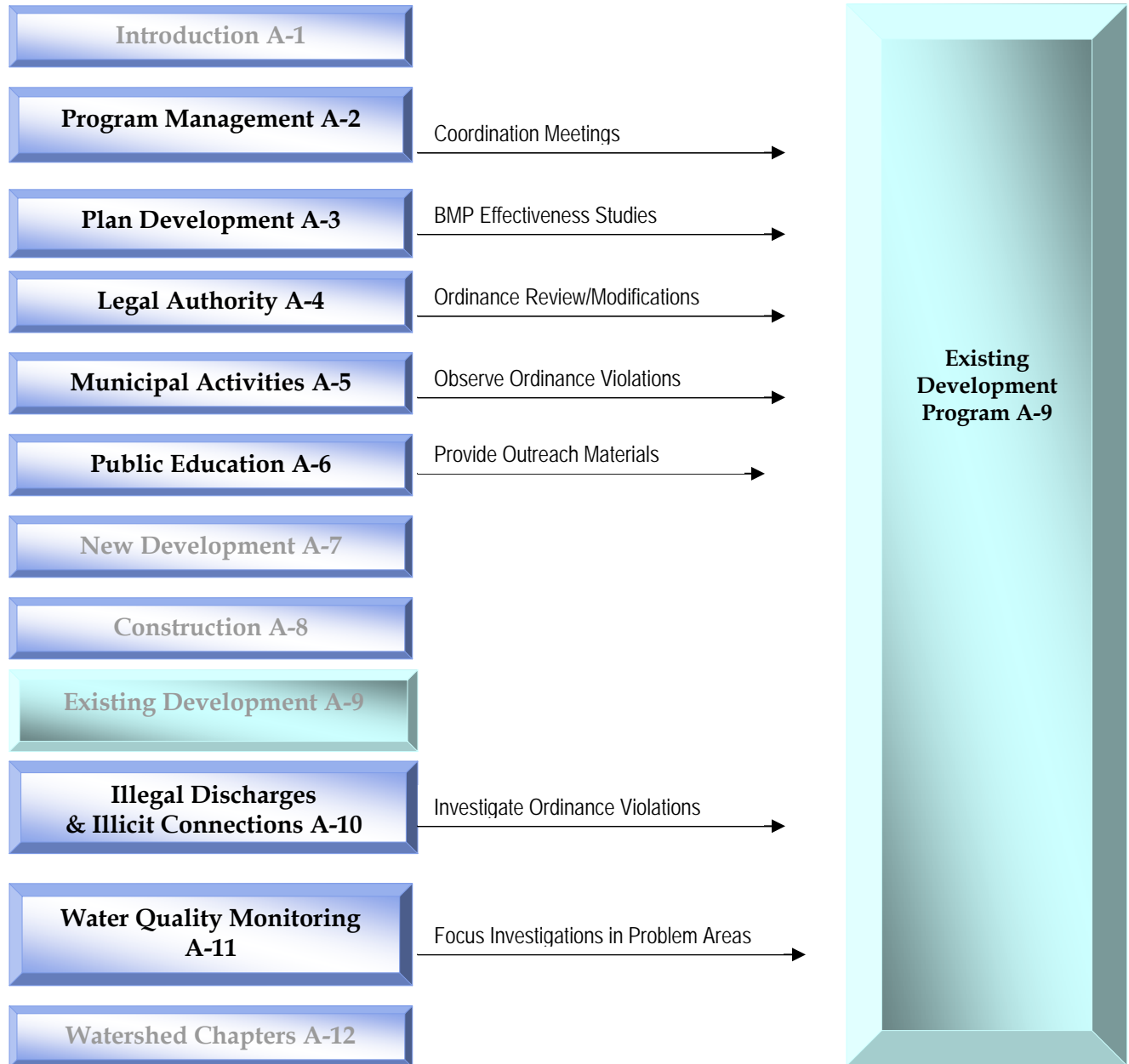
In addition, the Existing Development Program has been integrated with the other storm water management programs presented within the DAMP so that the City is able to leverage its finite resources and benefit from the other program efforts. The program integration for the City is illustrated in **Figure A-9.I**.

**Figure A-9.I**



## SECTION A-9, EXISTING DEVELOPMENT

### Storm Water Management Program Integration



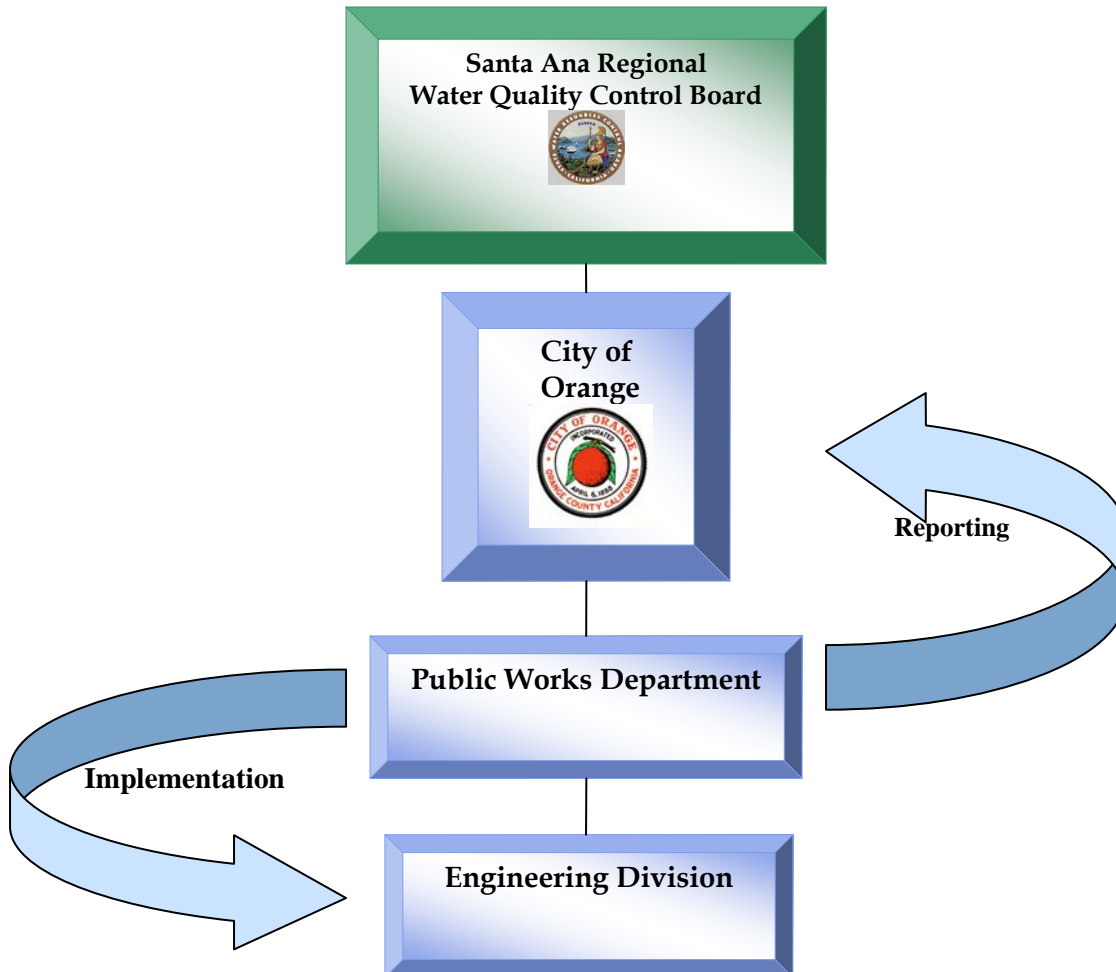


## SECTION A-9, EXISTING DEVELOPMENT

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The key staff responsible for overseeing, implementing and enforcing the existing development storm water program elements are identified in **Figure A-9.II** below and described further in Table A-9.I.

**Figure A-9.II**  
**Industrial Program Organization Chart**







## SECTION A-9, EXISTING DEVELOPMENT

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The City departments responsible for the implementation of the Existing Development Program element are shown below.

**Table A-9.I**  
**City of Orange Existing Development Implementation**

<b>Department</b>	<b>Activity</b>	<b>Responsibility Under the Permit/DAMP</b>
Finance; Community Development; Public Works	Interact with businesses and the public	Provide general information to industrial and commercial businesses and the public regarding storm water management
Finance	Manage business license application process	Provides commercial and industrial information for the inventory to LIP Management
Public Works/ Engineering	Manage existing development program	Inventories, prioritizes and maps facilities
Public Works/ Engineering;	Conduct inspections and enforcement activities for existing development sites	Implement inspections, require corrective actions to be taken, report actions taken to LIP Management
All	Refer ordinance violations to LIP Management	Report violations of the water quality ordinance
Public Work/ Engineering		Enforce the water quality ordinance

Key staff names for the departments can be found in Exhibit A-2.I



## SECTION A-9, EXISTING DEVELOPMENT

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### **A-9.1 Industrial Program**

This program was developed pursuant to past and present Santa Ana Regional Board Orders and Section 9.0 of the DAMP and provides a framework and process for conducting the following types of NPDES permit compliance activities at industrial areas.

- Pollution Prevention
- Inventorying
- Prioritization
- BMP Implementation
- Inspection and Enforcement

#### A-9.1.1 Pollution Prevention and Program Administration

The City's Industrial Program component includes specifications for pollution-prevention methods for industrial areas and activities located within the City. Specific pollution prevention practices that are generally recognized as being effective and economically advantageous in each discharger's industry or business activity are recommended and provided by the City to the industry or business (see Section A-9.1.4). Through an inspection program (Section A-9.1.5) the City verifies implementation of pollution-prevention methods and other BMPs by industries.

#### A-9.1.2 Inventory

The City is required to annually update its inventory of all industrial sites within its jurisdiction, regardless of site ownership. However, sites with SIC industrial codes that function merely as offices or do not utilize any operational processes are not included in the City's inventory for inspection. For all applicable industrial sites, the City's inventory includes the following types of information listed below for each industry identified within the City's jurisdiction.

- Business Name;
- Physical Address Information;
- General Permit ID # (if applicable);
- Ownership
- Business License
- Size
- SIC Code;
- Watershed;
- GIS Coordinates, and
- Comments/Notes.

The City continually reviews and revises the inventory based on the latest information gathered from facility inspections or other information reviewed by the inspectors. New facilities are added to the inventory based on a review of the City's monthly new business license report or



## SECTION A-9, EXISTING DEVELOPMENT

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from information gathered by inspectors or from referrals.

Existing facilities may be deleted if during site visits inspectors find that a facility is no longer in business. Based on this information, a facility is crossed off the inventory for that year and completely deleted from next year's inventory.

The industrial facility inventory and GIS map showing facility locations are included in **Exhibit A-9.I**. The inventory is updated on an ongoing basis to reflect the latest information and the most current inventory is submitted to the Regional Board with the annual progress report.

### A-9.1.3 Facility Prioritization

The City prioritizes industrial facilities as High, Medium, and Low, based on their respective threat to water quality and the procedures set forth in the DAMP. A designation of High Priority indicates that the facility contains a site or sources with a high potential threat to water quality. The Permit identifies some facilities to automatically be designated as High Priority eliminating the need for City evaluation.

For industries that are not pre-designated, the process consists of prioritizing each facility based on the following criteria:

- Type of Activity
- Material Used
- Waste Generated
- Pollutant Discharge Potential
- Non-Storm water Discharges
- Size of Facility
- Proximity to an Area of Special Biological Significance (ASBS)

Industries that receive a score equal to or greater than 25 are ranked as High Priority, those with a score below 25 and greater than 15 are ranked as Medium Priority, and those with a score less than or equal to 15 are ranked as Low priority.

New facilities are initially assessed and prioritized by the inspector based on personal knowledge and information provided in the business license report or other available information. A formal inspection of the facility and prioritization evaluation is conducted during the fiscal year.

During the course of a facility inspection, its prioritization is reviewed and reassessed based on the inspection. If warranted, the facility may be assigned a different priority based on a rescoring of the criteria noted above. Facilities excluded from reprioritization are those facilities automatically designated as High Priority in the permit.

The latest prioritization information for each industrial site is included in the inventory in **Exhibit A-9.I**.



## SECTION A-9, EXISTING DEVELOPMENT

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### A-9.1.4 BMP Implementation

The City has listed below in Table A-9.II the BMPs that are appropriate to prevent or mitigate pollution generated from the specific activities at each type of industrial facility. The corresponding fact sheets are presented in **Exhibit A-9.II**.

The City encourages the implementation of the designated BMPs at each industrial facility based on site-specific conditions in order to limit that facility's impact on receiving waters. If particular BMPs are infeasible at any specific site, other equivalent BMPs may be implemented.

**Table A-9.II - Industrial Activity BMPs**

<b>BMP Fact Sheet</b>	<b>Activity</b>
IC1.	AIRPLANE MAINTENANCE AND REPAIR
IC2.	ANIMAL HANDLING AREAS
IC3.	BUILDING MAINTENANCE
IC4.	CARPET CLEANING
IC5.	CONCRETE AND ASPHALT PRODUCTION, APPLICATION, AND CUTTING
IC6.	CONTAMINATED OR ERODIBLE SURFACES AREAS
IC7.	LANDSCAPE MAINTENANCE
IC8.	NURSERIES AND GREENHOUSES
IC9.	OUTDOOR DRAINAGE FROM INDOOR AREAS
IC10.	OUTDOOR LOADING/UNLOADING OF MATERIALS
IC11.	OUTDOOR PROCESS EQUIPMENT OPERATIONS AND MAINTENANCE
IC12.	OUTDOOR STORAGE OF RAW MATERIALS, PRODUCTS, AND CONTAINERS
IC13.	OVER WATER ACTIVITIES
IC14.	PAINTING, FINISHING, AND COATINGS OF VEHICLES, BOATS, BUILDINGS, AND EQUIPMENT
IC15.	PARKING AND STORAGE AREA MAINTENANCE



## SECTION A-9, EXISTING DEVELOPMENT

IC16.	POOL AND FOUNTAIN CLEANING
IC17.	SPILL PREVENTION AND CLEANUP
IC18.	VEHICLE AND EQUIPMENT FUELING
IC19.	VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR
IC20.	VEHICLE AND EQUIPMENT WASHING AND STEAM CLEANING
IC21.	WASTE HANDLING AND DISPOSAL
IC22.	EATING AND DRINKING ESTABLISHMENTS
IC23.	FIRE SPRINKLER TESTING
IC24.	WASTEWATER DISPOSAL

### A-9.1.5 Inspection and Enforcement

#### *A-9.1.5.1 Inspection*

Municipal inspection frequencies for the industrial facilities are based on permit requirements and the prioritization of each facility. A summary of inspection frequencies based on prioritization is shown in **Table A-9.III**.

**Table A-9.III**  
**Inspection Schedule Based on Prioritization**

Priority	Inspection Frequency
High	Annually
Medium	Every Two Years
Low	Once per permit cycle (5 years)

The City will inspect industrial facilities to determine if they are in compliance with City ordinances, review and assess BMP implementation and BMP effectiveness, and verify facility information. Among other things, the inspections will include review of:



## SECTION A-9, EXISTING DEVELOPMENT

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- Material and waste handling and storage practices,
- Pollution control BMP implementation and maintenance, and
- Evidence of past or present unauthorized, non-storm water discharges and
- Photographs and;
- Written documentation.

City inspectors work with facility operators to achieve full compliance. At the inspector's discretion, they may provide verbal or written recommendations for minor corrections not deemed a serious violation or a threat to water quality in place of the more formal Notice of Noncompliance.

Inspections will be documented using the inspection form and checklist provided in **Exhibit A-9.III**. Photographs will be taken of relevant findings of the inspections particularly waste handling practices. The form and checklist provide a series of questions about specific activities taking place at a facility, as well as a list of suggested corrective actions that can be implemented if a problem is found. The form also includes evaluation of the factors necessary to determine a facility's priority ranking. During each facility inspection the factors will be evaluated and a priority assessed. Based on this assessment, the facility may be reprioritized to a different category and inspection cycle.

The City will conduct the following types of inspections:

- **Compliance Inspections**

Initial compliance inspections are announced so that the inspector can meet with responsible facility official(s) (e.g., owner, superintendent, compliance manager, engineering consultant, etc.) in order to provide more efficient communication of the storm water requirements and inspection goals. The inspection focuses on current facility operations and activities, BMPs currently in use, and the general effectiveness of those BMPs. The inspection will also focus on verifying inventory information and, if necessary, provide outreach education to facility staff. All re-occurring compliance inspections will cover similar information but will typically be conducted to verify compliance and effectiveness of BMP implementation.

- **Follow-up Inspections**

For those facilities deemed to be non-compliant, the City will perform compliance inspections once a month until said facilities are shown to be compliant, and then once every six months for a full calendar year after the facility achieves compliance. Generally, these inspections will be similar to Compliance Inspections except that:

- They will focus primarily on areas where a facility was deemed to be non-compliant; and
- The inspections may be announced or unannounced, depending on



## SECTION A-9, EXISTING DEVELOPMENT

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which course of action the City deems will be most conducive to continued facility compliance.

Should an inspected site violate the City's ordinance(s), the City will coordinate the notification and response of both internal staff and other appropriate agencies according to the process included within Section A-10, the Illegal Discharges and Illicit Connections Program.

Incidents or practices of non-compliance considered a threat to human or environmental health will be reported to the RWQCB and to appropriate agencies. The City will provide oral notification to the RWQCB within 24 hours of the discovery of a non-compliant site and written notification within 5 days of the discovery. Criteria to be used in making this assessment include:

- The event poses a significant or imminent threat to the quality of surface or ground waters and/or their beneficial uses.
- The event results in a spill or discharge of hazardous materials in excess of reportable quantities (as listed in 40 CFR Part 117 or 302).
- The event results in a spill or discharge of hazardous materials requiring a hazardous materials emergency response (see **DAMP Section 10**).

In addition to the Compliance and Follow-up Inspections noted, the City will also investigate all complaints of illegal discharges from industrial facilities.

### *A-9.1.5.2 Enforcement*

City inspectors with enforcement authority will issue enforcement actions to industrial facility owners and operators determined to be out of compliance as detailed in DAMP Section 9 and 10. The inspectors will document each observed violation. Depending on the severity of the violation, enforcement actions can range from a verbal warning to civil or criminal court actions with monetary fines.

If a City inspector observes a significant and/or immediate threat to water quality, action will be taken to require the facility owner and/or operator to immediately cease the discharge.

The enforcement mechanisms available to inspectors are as follows:

- Notice of Non-compliance (**Exhibit A-10.II**)
- Abatement orders
- Infractions and misdemeanors

City inspectors will apply or recommend any of the enforcement steps as appropriate based on the Enforcement Consistency Guide. The City will ensure that violations of a similar nature are subjected to similar types of enforcement remedies.



## SECTION A-9, EXISTING DEVELOPMENT

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### **A-9.2 Commercial Program**

This program was developed pursuant to past and present Santa Ana Regional Board Orders and Section 9.0 of the DAMP and generally provides a framework and process for conducting the following types of NPDES permit compliance activities at commercial areas.

- Pollution Prevention
- Implementation
- Inventorying
- Prioritization
- BMP Implementation
- Inspection and Enforcement

#### A-9.2.1 Pollution Prevention and Program Administration

The City's Commercial Program includes specifications for pollution-prevention methods for commercial areas and activities located within the City. Specific pollution prevention practices that are generally recognized as being effective and economically advantageous for a discharger's business activity are recommended and provided by the City to that business (see Section A-9.2.4). Through its inspection program the City verifies implementation of pollution-prevention methods and other BMPs by commercial facilities.

#### A-9.2.2 Implementation

The City inspects commercial facility categories identified in the Permit within its jurisdiction. Food facilities are addressed in Section A-9.3.

#### A-9.2.3 Inventory

The City continually updates its inventory of permit required commercial sites within its jurisdiction. The City's inventory includes the following information about each identified site within the City's jurisdiction:

- Business Name;
- Physical Address Information;
- Mailing Address Information;
- Ownership
- Business License
- Size
- SIC Code;
- Watershed;
- GIS Coordinates;
- Comments/Notes.





## SECTION A-9, EXISTING DEVELOPMENT

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The City continually revises the inventory based on the latest information gathered from facility inspections or other information received by the inspectors. Facilities are added to the inventory based the review of the City's monthly new business license report or from referrals. Facilities are deleted from the inventory if during site visits the inspector finds that the facility is no longer in business. Based on this determination, the facility is crossed off the inventory for that year and completely deleted from next year's inventory.

The latest commercial facility inventory and GIS map showing the locations of the facilities are included in **Exhibit A-9.I**.

### A-9.2.4 Facility Prioritization

During the Third Term Permit an initial commercial inventory was completed and facilities prioritized as High, Medium or Low based on their respective threat to water quality and the procedures set forth in DAMP. Alternatively, commercial facilities may be prioritized based on requirements contained in the Regional Board Permit. A classification of High Priority indicates that the facility contains a site or sources with a high potential threat to water quality.

The process for prioritizing each facility based on the DAMP criteria is listed below.

- Type of Commercial Activity
- Magnitude of Commercial Activity
- Location of Commercial Activity
- Potential for Discharge of Pollutants to the MS4
- History of Un-Authorized Storm water Discharge

During the Fourth Term Permit the existing commercial inventory was reprioritized to meet the new permit's interim requirements of 10% High, 20% Medium and 70% Low. A Final reprioritization will be developed based on Regional Board discussions and approval of a proposed methodology to prioritize commercial facilities. The latest facility inventory and facility prioritizations will be provided with each annual progress report.

New facilities are initially assessed and prioritized by the inspector based on personal knowledge and information provided in the business license report or other available information. A formal inspection of the facility and prioritization is conducted during the fiscal year.

The current facility prioritization is included within the inventory spreadsheet in **Exhibit A-9.I**.

### A-9.2.5 BMP Implementation

The City has designated in Table A-9.IV below the BMPs that are appropriate to prevent or mitigate pollution generated from the specific activities at each type of commercial facility. The corresponding fact sheets are presented in **Exhibit A-9.II**.



## SECTION A-9, EXISTING DEVELOPMENT

The City encourages the implementation of the designated BMPs at each commercial facility based on site-specific conditions in order to limit that facility's impact on receiving water quality. If particular BMPs are infeasible at any specific site, other equivalent BMPs may be implemented.

**Table A-9.IV  
Commercial BMPs**

Activities/Sources	BMP Fact Sheets
Automobile mechanical repair, maintenance, fueling, or cleaning	IC18. VEHICLE AND EQUIPMENT FUELING IC19. VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR IC20. VEHICLE AND EQUIPMENT WASHING AND STEAM CLEANING
Airplane mechanical repair, maintenance, fueling, or cleaning	IC1. AIRPLANE MAINTENANCE AND REPAIR IC18. VEHICLE AND EQUIPMENT FUELING IC19. VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR IC20. VEHICLE AND EQUIPMENT WASHING AND STEAM CLEANING
Boat mechanical repair, maintenance, fueling, or cleaning	IC13. OVER WATER ACTIVITIES IC18. VEHICLE AND EQUIPMENT FUELING IC19. VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR IC20. VEHICLE AND EQUIPMENT WASHING AND STEAM CLEANING
Equipment repair, maintenance, fueling, or cleaning	IC18. VEHICLE AND EQUIPMENT FUELING IC19. VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR IC20. VEHICLE AND EQUIPMENT WASHING AND STEAM CLEANING
Automobile and other vehicle body repair or painting	IC14. PAINTING, FINISHING, AND COATINGS OF VEHICLES, BOATS, BUILDINGS, AND EQUIPMENT IC19. VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR
Mobile automobile or other vehicle washing	IC24. WASTEWATER DISPOSAL
Automobile (or other vehicle) parking lots and storage facilities	IC15. PARKING AND STORAGE AREA MAINTENANCE
Retail or wholesale fueling	IC18. VEHICLE AND EQUIPMENT FUELING
Pest control services	IC7. LANDSCAPE MAINTENANCE IC21. WASTE HANDLING AND DISPOSAL
Eating or drinking establishments	IC22. EATING AND DRINKING ESTABLISHMENTS



## SECTION A-9, EXISTING DEVELOPMENT

Activities/Sources	BMP Fact Sheets
Mobile carpet, drape or furniture cleaning	IC4. CARPET CLEANING
Cement mixing or cutting	IC5. CONCRETE AND ASPHALT PRODUCTION, APPLICATION, AND CUTTING
Masonry	IC5. CONCRETE AND ASPHALT PRODUCTION, APPLICATION, AND CUTTING
Building Maintenance and Light Construction	IC3. BUILDING MAINTENANCE IC5. CONCRETE AND ASPHALT PRODUCTION, APPLICATION, AND CUTTING IC6. CONTAMINATED OR ERODIBLE SURFACES AREAS
Outdoor Activities	IC6. CONTAMINATED OR ERODIBLE SURFACES AREAS IC9. OUTDOOR DRAINAGE FROM INDOOR AREAS IC10. OUTDOOR LOADING/UNLOADING OF MATERIALS IC11. OUTDOOR PROCESS EQUIPMENT OPERATIONS AND MAINTENANCE IC12. OUTDOOR STORAGE OF RAW MATERIALS, PRODUCTS, AND CONTAINERS
Painting and coating	IC14. PAINTING, FINISHING, AND COATINGS OF VEHICLES, BOATS, BUILDINGS, AND EQUIPMENT
Landscaping	IC7. LANDSCAPE MAINTENANCE
Nurseries and greenhouses	IC8. NURSERIES AND GREENHOUSES
Golf courses, parks and other recreational areas/facilities	IC6. CONTAMINATED OR ERODIBLE SURFACES AREAS IC7. LANDSCAPE MAINTENANCE
Pool and fountain cleaning	IC16. POOL AND FOUNTAIN CLEANING
Marinas	IC13. OVER WATER ACTIVITIES
Port-a-Potty servicing	IC21. WASTE HANDLING AND DISPOSAL

### A-9.2.6 Inspection and Enforcement

#### *A-9.2.6.1 Inspection*

Municipal inspection frequencies for the commercial facilities are based on the latest permit requirements and the prioritization of each facility. A summary of inspection frequencies based on prioritization is shown in **Table A-9.V**.



## SECTION A-9, EXISTING DEVELOPMENT

**Table A-9.V**  
**Inspection Schedule Based on Priority Ranking**

Priority	Inspection Frequency
High	Once per year
Medium	Every 2 years
Low	Once per permit term

The City inspects commercial facilities to determine if they are in compliance with City ordinances and permits, reviews and assesses BMP implementation and effectiveness, provides recommendations where improvement can be made, and verifies facility information. Among other things, such inspections include review of:

- Material and waste handling and storage practices,
- Pollution control BMP implementation and maintenance, and
- Evidence of past or present unauthorized, non-storm water discharges
- Photographs and;
- Written Documentation .

City inspectors work with facility operators to achieve full compliance. At the inspector's discretion, they may provide verbal or written recommendations for minor corrections not deemed a serious violation or a threat to water quality in place of the more formal Notice of Noncompliance.

Inspections will be documented through photographs and the use of an inspection form and checklist provided in **Exhibit A-9.III**. Photographs will be taken relevant to the findings of the inspections particularly waste handling practices. The form and checklist provide a series of questions about specific activities taking place at a facility, as well as a list of suggested corrective actions that can be implemented if a problem is found. The form also includes evaluation of the factors necessary to determine a facility's priority ranking. During each facility inspection the factors will be evaluated and a priority assessed. Based on this assessment, the facility may be reprioritized to a different category and inspection cycle.

The City will conduct the following types of inspections:

- **Compliance Inspections**

Initial compliance inspections will be announced so that the inspector can meet with the responsible facility official(s) (e.g., owner, superintendent, compliance manager, engineering consultant, etc.) in order to provide more efficient communication of the storm water requirements and inspection goals. The inspection will focus on current



## SECTION A-9, EXISTING DEVELOPMENT

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facility operations and activities, BMPs currently in use, and the general effectiveness of those BMPs. This inspection will also focus on verifying inventory spreadsheet information and, if necessary, provide outreach education to facility staff. All re-occurring compliance inspections will cover similar information but will typically be conducted to verify compliance and effectiveness of BMP implementation.

### ▪ Follow-up Inspections

For those facilities deemed to be non-compliant, the City will perform compliance inspections once a month until said facilities are shown to be compliant. Generally, these inspections will be similar to Compliance Inspections except that:

- They will focus primarily on areas where a facility was deemed to be non-compliant; and
- The inspections may be announced or unannounced, depending on which course of action the City deems will be most conducive to continued facility compliance.

Should an inspected site violate the City's ordinance(s), the City will coordinate the notification and response of both internal staff and other appropriate agencies according to the process included within Section A-10, the Illegal Discharges & Illicit Connections Program.

Incidents or practices of non-compliance considered a threat to human or environmental health and will be reported to the RWQCB and to appropriate hazardous waste management agencies. The City will provide oral notification to the RWQCB within 24 hours of the discovery of a non-compliant site and written notification within 5 days of the discovery. Criteria to be used in making this assessment include:

- The event poses a significant or imminent threat to the quality of surface or ground waters and/or their beneficial uses.
- The event results in a spill or discharge of hazardous materials in excess of reportable quantities (as listed in 40 CFR Part 117 or 302).
- The event results in a spill or discharge of hazardous materials requiring a hazardous materials emergency response (see **DAMP Section 10**).

In addition to the routine inspections noted, the City will also investigate all complaints of illegal discharges from commercial facilities.

#### *A-9.2.6.2 Enforcement*

City inspectors with enforcement authority can issue enforcement actions to commercial facility owners and operators determined to be out of compliance. The inspectors will document each observed violation. Depending on the severity of the violation, enforcement actions can range from a verbal warning to civil or criminal court actions with monetary fines.



## SECTION A-9, EXISTING DEVELOPMENT

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If a City inspector observes a significant and/or immediate threat to water quality, action will be taken to require the facility owner and/or operator to immediately cease the discharge.

The enforcement mechanisms available to inspectors are as follows:

- Notice of Non-compliance
- Abatement orders
- Infractions and misdemeanors

City inspectors will apply or recommend any of the enforcement steps as appropriate based on the Enforcement Consistency Guide . The City will ensure that violations of a similar nature are subjected to similar types of enforcement remedies.



## SECTION A-9, EXISTING DEVELOPMENT

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### **A-9.3 FOOD SERVICE FACILITIES INSPECTION PROGRAM**

The Orange County Health Care Agency (OCHCA) conducts the annual water quality inspection on all food service facilities on behalf of the City and other Permittees per the Food Facility Inspection Program described in **DAMP Section 9.3**. Water quality issues are documented and included in the OCHCA's monthly reports. The City is responsible for conducting follow-up inspections on facilities with water quality issues to confirm the implementation of best management practices for pollution prevention and to address the following activities:

1. Trash storage and disposal;
2. Grease storage and disposal;
3. Maintenance of trash collection area and grease interceptors;
4. Proper discharge of wash water (e.g., from floor mats, driveways, sidewalks, etc.);
5. Identification of outdoor sewer and MS4 connections; and
6. Education of property managers when grease and/or trash facilities are shared by multiple facilities.

The latest food facility inventory and GIS map showing the locations of the facilities are included in **Exhibit A-9.I**. The Health Care Agency maintains an independent database of these facilities.



## SECTION A-9, EXISTING DEVELOPMENT

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### **A-9.4 PILOT MOBILE BUSINESS PROGRAM**

The program described in this section was developed pursuant to Section X.8 of the Santa Ana Permit.

The pilot mobile surface cleaner program addresses businesses that provide one or more of the following services:

1. Cleaning (e.g., power sweeping, washing) driveways and parking lots;
2. Cleaning building exteriors (except sand blasting, window cleaning);
3. Driveway cleaning (e.g., power sweeping, washing) services;
4. Parking lot cleaning (e.g., power sweeping, washing); services;
5. Power washing building exteriors;
6. Pressure washing (e.g. buildings, decks, fences); and
7. Steam cleaning building exteriors

An Implementation Strategy to identify the framework for the mobile business pilot program was developed and will be included as a future **DAMP Exhibit**.

#### **A-9.4.1 Mobile Business Inventory**

The City will identify a list of mobile surface cleaner businesses that report their business address as being within the City and update the inventory as necessary based on information obtained from the City's existing inventory and from the monthly listing of new businesses.

#### **A-9.4.2 Best Management Practice (BMP) Implementation**

The City is working with the Principal Permittee to designate a minimum set of activity-specific BMPs for mobile surface cleaner businesses. These BMPs will be added to the DAMP and this LIP in the future.

#### **A-9.4.3 Inspections/Self-certifications**

Every two years the City will ensure that each known mobile surface cleaner business whose headquarters is listed within the City's jurisdiction achieves one of the following end points:

1. Successful completion of an online training program; or
2. Completion of a self-certification form; or
3. Inspection conducted by the Permittee

#### **A-9.4.4 Enforcement**

City inspectors with enforcement authority will issue enforcement actions to mobile business owners and operators determined to be out of compliance. The inspectors will document each





## SECTION A-9, EXISTING DEVELOPMENT

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observed violation. Depending on the severity of the violation, enforcement actions can range from a verbal warning to civil or criminal court actions with monetary fines.

If a City inspector observes a significant and/or immediate threat to water quality, action will be taken to require the mobile business owner and/or operator to immediately cease the discharge.

The enforcement mechanisms available to inspectors are as follows:

- Notice of Non-compliance
- Abatement orders
- Infractions and misdemeanors

While these measures typically escalate in enforcement action, they are not required to be issued in the exact order presented here. City inspectors will apply or recommend any of the enforcement steps as appropriate based on the Enforcement Consistency Guide. The City will ensure that violations of a similar nature are subjected to similar types of enforcement remedies.



## SECTION A-9, EXISTING DEVELOPMENT

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### A-9.5 Residential Program

This program was developed pursuant to Section 9.5 of the DAMP and the Regional Board permit.

#### A-9.5.1 Pollution Prevention and Program Administration

The City's Residential Program Component includes pollution-prevention methods for residential areas and activities within the City. Specific pollution prevention practices that are recognized for each residential activity with high potential to pose a threat to water quality are provided in the activity fact sheets presented in **Exhibit A-9.IV**. The City will use the implementation strategies discussed below.

#### A-9.5.2 Implementation

The City will primarily rely on the ongoing efforts of its and the countywide Public Education Program (Section A-6) and Illegal Discharges & Illicit Connections Program (Section A-10) to assist with the implementation of this program component.

#### A-9.5.3 Residential Map

The City has developed and maintains a GIS map indicating where the residential areas are within the city (**Exhibit A-9.V**). This map will assist the city in identifying areas that could be targeted for focused public education outreach as well as source identification studies if the water pollution information and/or water quality monitoring data warrant such an effort.

##### *A-9.5.3.1 High Threat Residential Activities*

Residential activities with a potential to impact water quality include:

- Automobile repair and maintenance
- Automobile washing
- Automobile parking
- Home and garden care activities
- Disposal of household hazardous waste
- Disposal of pet waste
- Disposal of green waste

These residential activities are assumed to occur with equal likelihood in all residential areas within the City's jurisdiction. The implementation of the residential program through the public education efforts is designed to address these activities on a citywide basis.



## SECTION A-9, EXISTING DEVELOPMENT

### A-9.5.3.2 High Threat Residential Areas

The City has developed a watershed-based inventory map of residential land use areas within the City's jurisdiction. Specific layers to the map include:

- Residential land use areas
- Watershed(s) within municipality boundaries
- Major Drainage facilities (channels and streams)

The City does not contain any residential areas within, adjacent, or discharging directly to an ASBS.

### A-9.5.4 Best Management Practice Requirements

The City has designated activity-specific BMP fact sheets and brochures for residential activities. The City has selected the educational material shown in **Table A-9.VI** below as appropriate to prevent or mitigate pollution generated from the specific activities typical of residences within its jurisdiction. The corresponding BMP fact sheets and public education brochure equivalent are shown in Table A-9-VI below. The City encourages the implementation of the designated BMPs at each residence to limit the potential impact of the residential activities on receiving water quality. The BMP fact sheets are provided in **Exhibit A-9.IV**.

**Table A-9.VI**  
**Residential Activity BMPs**

Activity	BMP Fact Sheet	Brochure Equivalent
Automobile Repair and Maintenance	R-1	Help Prevent Ocean Pollution: Recycle Your Used Oil
Automobile Washing	R-2	Help Prevent Ocean Pollution: Household Tips
Automobile Parking	R-3	Ocean Begins at Your Front Door
Home and Garden Care Activities	R-4	Help Prevent Ocean Pollution: Landscape and Gardening
Disposal of Pet Wastes	R-5	Help Prevent Ocean Pollution: Pet Care Tips
Disposal of Green Wastes	R-6	Help Prevent Ocean Pollution: Household Tips
Household Hazardous Waste Disposal	R-7	Help Prevent Ocean Pollution: Household Hazardous Material
Water Conservation	R-8	Help Prevent Ocean Pollution: Household Tips, Ocean Begins at Your Front Door



## SECTION A-9, EXISTING DEVELOPMENT

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### A-9.5.5 Program Implementation

The City shall implement the residential program on two levels:

1. Baseline implementation of encouraging identified BMPs for all residential areas within the City's jurisdiction through the Public Education (Section A-6) and Illegal Discharges & Illicit Connections Program (Section A-10).; and,
2. An enhanced implementation tailored to high threat residential areas identified through the Illegal Discharges & Illicit Connections Program (Section A-10).

The implementation of the residential program will rely on education and outreach to notify and urge residents to observe the designated sets of BMPs for each of the high threat activities. The City will encourage the implementation of the designated BMPs by residents within its jurisdiction by conducting the following as appropriate:

- *Responding to Hotline Calls.*
- *Updating the City's Website [www.cityoforange.org](http://www.cityoforange.org)* by providing the BMP fact sheets and information on residential storm water pollution prevention.
- *Public Service Announcements* reminding residents that the storm drain system conveys untreated water to the ocean using the established theme, "The Ocean begins at your front door." Announcements shall also include reminders that the City's hotline number is a 24-hour service.

### A-9.5.6 Enforcement

Enforcement actions may be initiated by the City as a response to incidents reported under the Illegal Discharges & Illicit Connections Program, observations by City staff or reported by other agencies. All enforcement actions will be documented and recorded in accordance with the documentation requirements in Section 10 for subsequent inclusion in the City's annual progress report. The enforcement mechanisms available are as follows:

- Notice of Non-compliance;
- Abatement Orders;
- Infractions and Misdemeanors.

While these measures typically escalate in enforcement action, they need not be issued in the exact order presented here. City officials apply or recommend any of the enforcement steps as appropriate based on the Enforcement Consistency Guide. The City ensures that violations of a similar nature are subjected to similar types of enforcement remedies.



## SECTION A-9, EXISTING DEVELOPMENT

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### A-9.6 COMMON INTEREST AREAS/HOMEOWNERS ASSOCIATION ACTIVITIES PROGRAM

The Fourth Term Permit required the development of a pilot program to address pollutant discharges from common interest area (apartments, condominiums, planned development) and homeowners associations (CIA/HOAs). This program is currently under development by the Principal Permittee and this LIP will be revised as additional information on the implementation of this gathered.

### A-9.7 Training and Outreach

#### A-9.7.1 Training

The outreach strategy for reaching industrial and commercial businesses as well as residents includes efforts such as providing storm water information of on the City's website, conducting mailings, holding workshops, and development and distribution of brochures, posters, fact sheets, etc. The outreach component of **DAMP Section 6.0** goes into specific detail on requirements for the approach of outreach efforts and the materials that have currently been developed are included in **DAMP Appendix B, Section B-6**.

A total of six training modules covering different aspects of the Model Existing Development Program have been developed by the Principal Permittee. These modules are provided in DAMP Appendix B, Section B-9 and will be reviewed by the Principal Permittee and updated as necessary. The modules include the following:

*Existing Development Program Management Module (Appendix B, Exhibit B-9.I)*

This training module is targeted to Storm Water Program Managers. The module includes an overview of the Existing Development Program and detailed discussions of the requirements that storm water managers must address in local implementation plans. Step by step instructions are provided to aid the managers in preparing their LIPs.

*Field Implementation of Existing Development Program Module (Appendix B, Exhibit B-9.II)*

This training module is targeted at staff responsible for enforcement and inspection of industrial and commercial facilities. The module addresses the basic program element requirements and provides detailed instruction on conducting inspections, including inspection forms, record keeping requirements, and enforcement tools available for code violations.

*Existing Development Program Training – Automobile Mechanical Repair, Maintenance, Fueling and Cleaning Businesses Module (Appendix B, Exhibit B-9.III)*

This training module is for business owners and operators of automobile maintenance related businesses. The module explains the overall effort to address storm water and what the



## SECTION A-9, EXISTING DEVELOPMENT

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business can do to improve water quality. The module provides examples of good source control Best Management Practices, including BMPs for fueling, maintenance & repair, and vehicle washing. References are provided for the business owner to pursue for more information.

*Existing Development Program Training – Landscape Maintenance Businesses Module (Appendix B, Exhibit B-9.IV)*

This training module is for business owners and operators of landscape maintenance related businesses. The module explains the overall effort by the Orange County to address storm water and what the business can do to improve water quality. The module provides examples of good source control Best Management Practices in the areas of pest control, yard fertilizing and safer alternatives. References for the business owner to pursue for more information are also provided.

### *City Training*

The City will supplement the County of Orange modules through implementation of its own training program. This program includes Annual or Bi-Annual review of the following:

- Enforcement Consistency Guide
- Water Quality Ordinance
- BMP Fact Sheets
- DAMP Chapter 9

In addition, inspector sessions will be conducted on a weekly basis to discuss issues encountered the previous day and the best way to resolve them. This ensures similar situations in the future will be dealt with in a consistent manner.

### A-9.7.2 Outreach

The outreach strategy for reaching industrial and commercial businesses as well as residents includes efforts such as providing storm water information on the City's and Principal Permittee's webpage, mailings, holding workshops, and developing and distributing brochures, posters, fact sheets, etc. The outreach component of the LIP Section 6 goes into specific detail on requirements for the approach of outreach efforts and the materials that have currently been developed.

### A-9.7.3 Program Effectiveness Assessment

The overall Program Effectiveness Assessment (PEA) serves as the foundation for the submittal of the annual progress report that is submitted each year to the Principal Permittee and subsequently to the Regional Boards and serves as the basis for evaluating the City's industrial program efforts.



## SECTION A-9, EXISTING DEVELOPMENT

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The PEA allows the City to assess the effectiveness of its storm water program components including those focused on addressing storm water and non-storm water discharges associated with industrial activity. The industrial program effectiveness assessment enables the City to evaluate the effectiveness of its local program by focusing on data collected from the inventorying, prioritization, BMP implementation, inspection and enforcement of industrial facilities as well as training records.

## Exhibit A-9.I

Industrial Inventory

Commercial Inventory

GIS Map of Industrial & Commercial Locations



## Exhibit A-9.I

### Industrial Inventory

City of San Jose  
Industrial Facility Inventory FY '11-'12

Facility Name	Street Number	Street Direction	Street Name	Street Type	St. Unit	Zip Code	Longitude	Latitude	SIC/NAIC Code	WDID	Business License No.	Watershed	Priority	Fac. Size (Oper)	Ownership Info/Contact
HIGH															
INDEPENDENT FORGE COMPANY	692	N	BATAVIA	ST		92868	-117.86328191300	33.79899786520	3334	830I004199	04981	Lower Santa Ana River	High	??	Rosemary Ruiz
A1 AUTO RECYCLING	815	N	BATAVIA	ST		92868	-117.86165410300	33.80093291430	7549/9999	830I011389	70263/77886	Lower Santa Ana River	High	24,000 sf	Paula Rose
ABF FREIGHT SYSTEM INC	1601	N	BATAVIA	ST		92865	-117.86227728800	33.81380880000	4213	830I021136	110767	Lower Santa Ana River	High	254,830 sf	Robert Davidson
DUCOMMUN AEROSTRUCTURES	1865	N	BATAVIA	ST		92865	-117.86188263100	33.81856773600	332311	830I002947	112285/112286	Lower Santa Ana River	High	4 acres	Don Bach
TRANSPORTATION CHARTER SERVICES INC	1931	N	BATAVIA	ST		92865	-117.86188724600	33.81985407290	4729	830I017938	79082	Lower Santa Ana River	High	54,890 sf	Raymond Gilligan
FOAMEX/ FXI	2060	N	BATAVIA	ST		92865	-117.86241170700	33.82151041090	3086	830I011543	79468	Lower Santa Ana River	High	27 acres	Foamex International
CONWAY FREIGHT	2102	N	BATAVIA	ST		92865	-117.86485613700	33.82272145030	4212	830I006449	66678	Lower Santa Ana River	High	9.1 acres	Douglas Stollar
USF REDDAWAY	2200	N	BATAVIA	ST		92865	-117.86245071000	33.82490012270	4212	830I018374	124908	Lower Santa Ana River	High	280,000 sf	T. J. O'Connor
MARCEL ELECTRONICS INTERNATIONAL	230	W	BRISTOL	LN		92865	-117.85494834900	33.82680901380	5065	830I016713	41550	Lower Santa Ana River	High	63,000 sf	Jack Evans
VI CAL METALS	1645	N	CASE	ST		92867	-117.85874127200	33.81460209000	5093	830I009403	49906	Lower Santa Ana River	High	42,690 sf	Frank Calla
ULTRA-PURE METAL FINISHING INC	1764	N	CASE	ST		92865	-117.85911370000	33.81684418590	3471	830I015113	70438	Lower Santa Ana River	High	12,000 sf	Nina Juarez
COMMERCIAL METAL FORMING	341	W	COLLINS	AVE		92867	-117.85660284800	33.80252636910	3400	830I017356	104716	Lower Santa Ana River	High	300,000 sf	William Kowal
MATRIX SERVICE INC	500	W	COLLINS	AVE		92867	-117.85798296700	33.80207693910	3440	830I020967	103058	Lower Santa Ana River	High	4.75 acres	Michael Bradley
ORANGE UNIFIED SCHOOL DISTRICT	726	W	COLLINS	AVE		92867	-117.85981334200	33.80205348230	4151	830I016962	40131	Lower Santa Ana River	High	417,000 sf	OUSD
FURNITURE TRADITIONS INCORPORATED	1450	W	COLLINS	AVE		92867	-117.86856207400	33.80203848110	442110	830I015484	53618	Lower Santa Ana River	High	70,000sf	Steve Ardis
SOUTHERN COUNTIES LUBRICANTS LLC	1825	W	COLLINS	AVE		92867	-117.87203440100	33.80256875700	5171	830I019537	91278	Lower Santa Ana River	High	32,000 sf	Richard Bechtel
CYTEC ENGINEERED MATERIALS	645	N	CYPRESS	ST		92867	-117.85619940700	33.79778607720	2899	11030/13447	91205	Lower Santa Ana River	High	163,000 sf	Michael Melancon
NATIONAL OILWELL VARCO	759	N	ECKHOFF	ST		92868	-117.87392332300	33.80000721190	8744	830I020435	77358	Lower Santa Ana River	High	467,000 sf	Walter Reinhold
YRC / YELLOW TRANSPORTATION	700	N	ECKHOFF	ST		92868	-117.87407295800	33.79816622420	4212	830I003120	11910	Lower Santa Ana River	High	417,000 sf	Mike Smid
NEWPORT FLAVORS & FRAGRANCES	833	N	ELM	ST		92867	-117.86940200000	33.80054200000	2844	830I022490	92975	Lower Santa Ana River	High	23,700 sf	William R Sabo
KING PLASTICS INC	840	N	ELM	ST		92867	-117.87020675700	33.80137559730	3089	830I020851	13012	Lower Santa Ana River	High	23,780 sf	Phillip Lathrum
CIRTECH INC	250	E	EMERSON	ST		92865	-117.85094974700	33.82435236170	5060	830I002919	99298	Lower Santa Ana River	High	60,550 sf	Frank Reese
CUNDIFF STEEL FABRICATION	732	W	FLETCHER	AVE		92865	-117.86045223500	33.82933841710	1791	830I005334	10957	Lower Santa Ana River	High	110,000 sf	Craig Cundiff
FLETCHER COATING COMPANY	426	W	FLETCHER	AVE		92865	-117.85679070700	33.82928284310	3470/3479	830I016793	03617/98243	Lower Santa Ana River	High	180,000 sf	Patricia Breeding
SCOPE PACKAGING INC	240	W	FLETCHER	AVE		92865	-117.85545359000	33.82916485370	2653	830I006339	44760	Lower Santa Ana River	High	80,000 sf	Michael Flinn
HIGHTOWER METAL PRODUCTS CO	2090	N	GLASSELL	ST		92865	-117.85343489800	33.82252869040	3469	830I011571	42607	Lower Santa Ana River	High	70,000 sf	Kurt Koch
BURLINGTON ENGINEERING INC	220	W	GROVE	AVE		92865	-117.85441556400	33.82019356290	5051	830I013499	111945	Lower Santa Ana River	High	15,000 sf	Karen Corbell
STRAUB DISTRIBUTING CO	410	W	GROVE	AVE		92865	-117.85679661500	33.82071533890	7389	830I020932	64482	Lower Santa Ana River	High	3 acres	Mark Danner
B C I COCA COLA	700	W	GROVE	AVE		92865	-117.85997972400	33.82067230770	2086	830I006472	95645/47377	Lower Santa Ana River	High	9.5 acres	Esther Kowalski
CONTINUOUS COATING CORPORATION	520	W	GROVE	AVE		92865	-117.85782764200	33.82075007500	3999	830I009915	8188	Lower Santa Ana River	High	13,500 sf	Ralph Scott
FEDEX NATIONAL LTL	310	W	GROVE	AVE		92865	-117.85530158000	33.82074520620	4212	830I017748	120194	Lower Santa Ana River	High	185,000 sf	Michael Moss
A I M TRANSPORTATION INC	660	N	HARITON	ST		92868	-117.85894187400	33.79816809090	488490	830I010499	23418	Lower Santa Ana River	High	34,850 sf	William Sosnowski
QUALITY ALUMINUM FORGE	810	N	LEMON	ST		92867	-117.85670356300	33.80065927180	3354	19715/19716	114702/114703	Lower Santa Ana River	High	191,000 sf	Tristano Caracciolo
ON LINE GRAPHICS & FINISHING	1924	N	LIME	ST		92865	-117.86397799700	33.81975544510	2843	830I020675	91315	Lower Santa Ana River	High	18,000 sf	James Meehan Jr.
ANGELUS BLOCK CO INC	1705	N	MAIN	ST		92865	-117.86731926000	33.81653865990	3271	830I004555	95094/11103	Lower Santa Ana River	High	800,000 sf	Mario Antonini
CEMEX	1730	N	MAIN	ST		92865	-117.86782097400	33.81655997420	3273	830I014504	130481	Lower Santa Ana River	High	240,000 sf	Cemex Inc
ARDEN ENGINEERING	1878	N	MAIN	ST		92865	-117.86765077500	33.81849808890	8711	830I020694	30583	Lower Santa Ana River	High	72,400 sf	John Meisenbach
WEST AMERICAN RUBBER CO	750	N	MAIN	ST		92868	-117.86688002700	33.79822736270	3060	830I016996	104974	Lower Santa Ana River	High	371,000 sf	Steven Hemstreet
SO CAL MERCEDES PARTS LLC	1436	N	MANZANITA	ST		92867	-117.85873500000	33.81182200000	5013	830I022117	130394	Lower Santa Ana River	High	20,400 sf	Matthew Bourne
BAF	210	E	MEATS	AVE		92865	-117.85177265800	33.82267105380	5169	830I003570	60787	Lower Santa Ana River	High	2 acres	Kurt Beck
LIQUINOX CO	221	W	MEATS	AVE		92865	-117.85435334500	33.82305065460	1479	830I014865	8553/100193	Lower Santa Ana River	High	48,700 sf	Henry Garner
WESTPAC MATERIALS	341	W	MEATS	AVE		92865	-117.85509650200	33.82304015850	2679	830I019791	104586/104587	Lower Santa Ana River	High	400,000 sf	West Pac Trust
OLD TOWN FIBERGLASS	456	S	MONTGOMERY	WAY		92868	-117.85773426900	33.78133554430	3089	830I020187	154435	Lower Santa Ana River	High	15,000 sf	Lisa Burnam
GARDA CL WEST INC	1602	W	ORANGEGROVE	AVE		92868	-117.86949161600	33.79508326540	7381	830I019555	7381	Lower Santa Ana River	High	32,600 sf	Stephan Cretier
FISHER PRINTING INC	2257	N	PACIFIC	ST		92865	-117.85713529500	33.82558066780	2741	830I011864	98133/31458	Lower Santa Ana River	High	72,300 sf	Willard Fischer
MUSTANG PARTS & RESTORATION	990	N	PARKER	ST		92867	-117.86014981900	33.80395763400	5013/7549	830I003078	114191/114192	Lower Santa Ana River	High	10,000 sf	Jim Kim
DUNHAM METAL PROCESSING	936	N	PARKER	ST		92867	-117.86013129900	33.80304987110	7300	830I016654	11757	Lower Santa Ana River	High	15,680sf	Charles Dunham
ORANGE COUNTY PLATING CO INC	960	N	PARKER	ST		92867	-117.86012580200	33.80344744280	3541	830I003592	10589	Lower Santa Ana River	High	15,600 sf	Lawrence Honikel
JEZOWSKI & MARKEL CONTRACTORS INC	748	N	POPLAR	ST		92868	-117.87064139400	33.79927042860	1771	830I018182	89473	Lower Santa Ana River	High	110,000 sf	Leonard Barth
RTS PACKAGING, LLC	749	N	POPLAR	ST		92868	-117.86999119400	33.79922452770	2653	830I013604	89792	Lower Santa Ana River	High	44,340 sf	Richard Steed
HANSON AGGREGATES	6145	E	SANTIAGO CYN	RD		92869	-117.78640990100	33.81396643550	3272	830I002481	91426	Lower Santa Ana River	High	278,000 sf	Dave Hummel
NURSERY SUPPLIES INC	534	W	STRUCK	AVE		92867	-117.85818299600	33.80574208580	3089	830I010273	122557	Lower Santa Ana River	High	5 acres	Norman Bellevue
CADILLAC PLATING INC	1147	W	STRUCK	AVE		92867	-117.86449511300	33.80635332890	3471	830I016171	88332	Lower Santa Ana River	High	10,000 sf	Adan Ibarra
SHADOW HAWK, INC / THE PAPER DEPOT	1200	W	STRUCK	AVE		92867	-117.86473046700	33.80577868940	322299	830I020716	83891	Lower Santa Ana River	High	40,000 sf	Richard Krueger
THERMAL-VAC TECHNOLOGY	1221	W	STRUCK	AVE		92867	-117.86556135500	33.80633910810	3433	830I003647	44534	Lower Santa Ana River	High	30,000 sf	Steve Driscoll
MAR CHEM PACIFIC	212	W	TAFT	AVE		92865	-117.85419699100	33.81538299490	3089	830I014901	89201	Lower Santa Ana River	High	1.5 acres	Marvin Wool
CURRENT= 56															
MEDIUM															
APPLIED FRICTION TECHNIQUES INC	1225	W	BARKLEY	AVE		92868	-117.86459217400	33.80089768430	3714		62869	Lower Santa Ana River	Medium	8,000 sf	Robert Brooks
PETERSON DETENTION INC	577	N	BATAVIA	ST		92868	-117.86	33.80	2514		128220	Lower Santa Ana River	Medium	18,000 sf	Michael Peterson
PERKINS: C P CONSTRUCTION SERVICES	650	N	BATAVIA	ST		92868	-117.86165678000	33.79679278800	1542		107325	Lower Santa Ana River	Medium	23,500 sf	Earl Perkins, Jr
ORANGE R V STABLES	760	N	BATAVIA	ST		92868	-117.86221356700	33.79827521260	4225		80095	Lower Santa Ana River	Medium	79,000 sf	Herb



**City of Orange**  
**Industrial Facility Inventory FY '11-'12**

Facility Name	Street Number	Street Direction	Street Name	Street Type	St. Unit	Zip Code	Longitude	Latitude	SIC/NAIC Code	WDID	Business License No.	Watershed	Priority	Fac. Size (Oper)	Ownership Info/Contact
DATA AIRE INC.	230	W	BLUERIDGE	AVE		92865	-117.85	33.82	3585		100967	Lower Santa Ana River	Medium	100,000 sf	S D Moffat
ANAHEIM PRECISION MFG/O C METAL DISTRIBUTORS	341/409	W	BLUERIDGE	AVE		92865	-117.86	33.82	3444/2499		47927/122642/1058	Lower Santa Ana River	Medium	27,000 sf	Anthony Puccio
PRO MECHANICAL CORPORATION	507	W	BLUERIDGE	AVE		92865	-117.857432	33.819182	1542		99110	Lower Santa Ana River	Medium	16,000 sf	Thomas Lee
CERAMIC TILE POUR LA MAISON	227	E	BRISTOL	LN		92865	-117.851612	33.82584	3253		124174	Lower Santa Ana River	Medium	17,800 sf	Maria Weidner
SH SHEET METAL FABRICATION INC	1826	W	BUSINESS CTR	DR		92868	-117.87328249500	33.80141543770	3444		108819	Lower Santa Ana River	Medium	17,400 sf	Hoai Thi Nguyen
SMITH POOL PLASTERING INC	227	W	CARLETON	AVE		92867	-117.85404693600	33.81042179300	1799		62189	Lower Santa Ana River	Medium	35,000 sf	Alan Smith
ANGELICA TEXTILE SERVICES	1575	N	CASE	ST		92867	-117.86	33.81	7218		11410	Lower Santa Ana River	Medium	107,500 sf	Jack Olbrych
CALIFORNIA GASKET & RUBBER CORPORATION	533	W	COLLINS	AVE		92867			326299		143614	Lower Santa Ana River	Medium	53,000 sf	Scott Franklin
H & R PLASTICS INC	740	W	COLLINS	AVE		92867	-117.86	33.80	2821		6366	Lower Santa Ana River	Medium	7,000 sf	Fredrick Holcumb
CRABTREE INDUSTRIES	804	W	COLLINS	AVE		92868	-117.86	33.80	3999		13052	Lower Santa Ana River	Medium	6,000 sf	Larry Crabtree
R M A PRECISION MACHINE COMPANY	1243	W	COLLINS	AVE		92867	-117.87	33.80	3589		106954	Lower Santa Ana River	Medium	5,000 sf	Shelley Jones
SYBRON DENTAL SPECIALTIES/ KERR CORP	1717	W	COLLINS	AVE		92867	-117.87	33.80	3843		89074/101933	Lower Santa Ana River	Medium	100,000 sf	Dan Even/Sleve Paskin
COASTAL ENTERPRISES CO	1925	W	COLLINS	AVE		92867	-117.87	33.80	2741		66781	Lower Santa Ana River	Medium	25,000 sf	Arthur Miller
COATINGS BY SANDBERG INC	856	N	COMMERCE	AVE		92867	-117.87	33.80	3231		101457	Lower Santa Ana River	Medium	12,000 sf	Nona Sandburg
HOLLINS AUTO MACHINE COMPANY	538	N	CYPRESS	ST		92867	-117.86	33.80	7699		08589	Lower Santa Ana River	Medium	4800 sf	John Hollins
ALPINE MARBLE REST INC/SIMPLE STONE SOLUTIONS INC	602	N	CYPRESS	ST		92867			1799		94937	Lower Santa Ana River	Medium		
UNIVERSAL CYLINDER EXCHANGE INC	692	N	CYPRESS	ST	B	92867	-117.86	33.80	3593		105087	Lower Santa Ana River	Medium	?	Pamela Ogier
DANLY ENGINEERING COMPANY	793	N	CYPRESS	ST		92867	-117.856029	33.80	3499		00066	Lower Santa Ana River	Medium	36,000 sf	Stephen Hoblick
BAPKO METAL INC	838	N	CYPRESS	ST		92867			238120		22172	Lower Santa Ana River	Medium		Fred Bagatourian
CALIFORNIA BORING	770	N	ECKHOFF	ST		92868	-117.85619886700	33.80030291640	1799		81233	Lower Santa Ana River	Medium	96,000sf	Kevin Reardon
R D FABRICATORS INC	845	N	ELM	ST		92868	-117.87594687900	33.79982328450	3499		32432	Lower Santa Ana River	Medium	25,000 sf	Raymond Foye
CONTRACT ILLUMINATION INC/OLD CALIF LANTERN CO	975	N	ENTERPRISE	ST		92867	-117.86	33.80	3648		104690/86405	Lower Santa Ana River	Medium		Richard Thomas
GOMTECH ELECTRONICS INC	990	N	ENTERPRISE	ST	L, M	92867	-117.86443411700	33.80365048580	3672		103009/111314	Lower Santa Ana River	Medium	41,800 sf	Guillermo Gomez
BILL'S SWEEPING SERVICE INC	715	W	FLETCHER	AVE		92865	-117.86	33.83	1799		12026	Lower Santa Ana River	Medium	15,600 sf	Mark Carter
LETNER ROOFING CO	1490	N	GLASSELL	ST		92867			1761		40850	Lower Santa Ana River	Medium	3.7 acres	Dennis Olson
SYSTEM ONE CHEMICAL LLC & SYSTEM 51 INC	2043	N	GLASSELL	ST		92865			2819		133958/132688	Lower Santa Ana River	Medium	22,700 sf	William Porrazzo
WASTE MANAGEMENT	2050	N	GLASSELL	ST		92865	-117.85	33.82	5199, 7389		97305, 79928	Lower Santa Ana River	Medium	150,000 sf	David Ross
MARBIL INDUSTRIES INC	2201-2207	N	GLASSELL	ST		92865	-117.852483	33.824884	3469		23568	Lower Santa Ana River	Medium	9,700 sf	William Thomson Sr
S B R CONSTRUCTION	715	W	GROVE	AVE	B	92865	-117.86108600000	33.82142600000	1761		80884	Lower Santa Ana River	Medium	30,000 sf	Ralph Dion
PROWEST ENGINEERING INC/PREMIER WEST CONTRACTORS	740	W	GROVE	AVE	A	92866			1500		131534	Lower Santa Ana River	Medium		Billy L Foster
CAN DO SERVICES WEST LLC	840	W	GROVE	AVE		92865	-117.86	33.82	2842		121198	Lower Santa Ana River	Medium	50,000 sf	Steve Fenzl
LASER INDUSTRIES	677	N	HARITON	ST		92868	-117.85824152300	33.79798312180	5039		54908	Lower Santa Ana River	Medium		Robert Karim
STRIVE CONCRETE CUTTING INC	766	N	LEMON	ST		92867			4225		130013	Lower Santa Ana River	Medium		
ADVANTAGE MAILING INC/ADV. LITHO	1633	N	LESLIE	WAY		92867	-117.86	33.81	7389		106200	Lower Santa Ana River	Medium	100,000 sf	Thomas Ling
SKB CORPORATION	434	W	LEVERS	PL		92867	-117.86	33.81	3999		24629	Lower Santa Ana River	Medium	6,000 sf	Steven Kottman
STATEK CORPORATION	512	N	MAIN	ST		92868	-117.87	33.80	3679		7995	Lower Santa Ana River	Medium	60,000 sf	Brian McCarthy
ALL DIAMETER GRINDING INC	725	N	MAIN	ST		92868	-117.87	33.80	3599		89537	Lower Santa Ana River	Medium	9,500 sf	Marvin Goodwin
VALDO CONTAINERS INC	735	N	MAIN	ST		92868	-117.86485559400	33.79886840850	3089		95647	Lower Santa Ana River	Medium	6,500 sf	Jose Valdez
ROHM MACHINE & WELDING INC	845	N	MAIN	ST		92868	-117.86642474100	33.80105452310	3541		08404	Lower Santa Ana River	Medium	16,000 sf	Douglas Whitney
KINDER MORGAN ENERGY PARTNERS	1350	N	MAIN	ST		92867	-117.87	33.81	7389		59242	Lower Santa Ana River	Medium	394,000 sf	Richard Kinder
HERITAGE CARBIDE INC	1591	N	MAIN	ST		92867	-117.866457	33.813818	3531		91048	Lower Santa Ana River	Medium	10,000 sf	Ronnie Tipton
CIRCUIT TECH INC	1911	N	MAIN	ST		92865	-117.866961	33.819363	3672		90097	Lower Santa Ana River	Medium	10,000 sf	Nilesh Khani
UNIVERSAL METALS/B & S METAL CUTTING	1922	N	MAIN	ST		92865	-117.86713948800	33.81926935330	5051/8999		101131/101132	Lower Santa Ana River	Medium	22,000 sf	Richard McKeever
CAL-WEST MACHINING INC	1933	N	MAIN	ST		92865	-117.86751732900	33.81946503200	3559		37152	Lower Santa Ana River	Medium	12,000 sf	Larry Lewis Sr
BELT DRIVES LTD	1959	N	MAIN	ST		92865	-117.86672212700	33.82078498850	3542		98015	Lower Santa Ana River	Medium	40,000 sf	Steven Yatzke
CLEANROOM FILM & BAGS	1405	N	MANZANITA	ST		92867	-117.858014	33.810988	2673		127293	Lower Santa Ana River	Medium	21,000 sf	Bruce Lanfried
ALPHA ARCHITECTURAL PRODUCTS	1410	N	MANZANITA	ST		92867	-117.85830278500	33.81090989640	3442		102254	Lower Santa Ana River	Medium	21,000 sf	Paul Proulx
POLLARD - SWAIN INC	218	E	MEATS	AVE		92865	-117.85403896700	33.82304269260	2992		100511/40579	Lower Santa Ana River	Medium	15,000 sf	Dale Swain
HANDS ON FAMILY PARTNERSHIP	418	S	MONTGOMERY	PL		92868	-117.857582	33.782119	3490		121489	Lower Santa Ana River	Medium	5,000 sf	Richard Price
ALLIED MODULAR BUILDING SYSTEMS	642	W	NICOLAS	AVE		92868	-117.879211	33.799652	3448		109294	Lower Santa Ana River	Medium	40,000 sf	Kevin Pethman
H&H PERFECTION FABRICATION	726	W	NICOLAS	AVE		92868	-117.85917325000	33.79984597010	3444/5090		88180/124489	Lower Santa Ana River	Medium	35,000 sf	Keith Nguyen
RUSSELL'S CRANE & DRILLING	1645	W	ORANGEWOOD	AVE		92868	-117.870163	33.795454	7389		13137	Lower Santa Ana River	Medium	45,000 sf	Phil Russell
SIMEONE ASSOCIATES INC	2228	N	PACIFIC	ST		92865	-117.85760530000	33.82442653750	3699		46834	Lower Santa Ana River	Medium	8,000 sf	Joseph Simeone
PURE EFFECT INC	611	W	PALM	ST		92868	-117.858169	33.791546	5046/7690		108488/108487	Lower Santa Ana River	Medium	35,000 sf	Robert Robinson
FERRO COMPANY	1002	N	PARKER	ST		92867	-117.859971	33.804371	1799		127776	Lower Santa Ana River	Medium	6,000 sf	Travis Zylstra
INDUSTRIAL METAL FINISHING, INC.	1085	N	PARKER	ST		92867	-117.85945257600	33.80359285570	3499		93544	Lower Santa Ana River	Medium	20,000 sf	Robert Hayden Jr
FASTEX INC	1202	W	STRUCK	AVE		92867			2299		57364	Lower Santa Ana River	Medium	35,000 sf	Robert Snyder
SEVEN - UP/ RC BOTTLING CO	1300	W	TAFT	AVE		92865	-117.86583826000	33.81530185240	2080	8301018604	67599/94049	Lower Santa Ana River	Medium	34,000 sf	Bart Brodick
SOVEREIGN MOLD INC	1331	W	TRENTON	AVE		92867	-117.8666496	33.811248	3999		12887	Lower Santa Ana River	Medium	4,000 sf	Paul Foote
GARRIS PLASTERING/PADILLA CONSTRUCTION	1130	W	TRENTON	AVE		92867	-117.864276	33.864276	1742		97712	Lower Santa Ana River	Medium		Ralph Padilla
BC2 ENVIRONMENTAL CORP	1150	W	TRENTON	AVE		92867	-117.86540300000	33.81019400000	1781		131304	Lower Santa Ana River	Medium		Kurt D Samuelson
ORANGE COUNTY SAND BLASTING INC	415	W	WALNUT	AVE		92867	-117.85700702700	33.79525594160	5039		91076	Lower Santa Ana River	Medium	10,000 sf	Donald Gravely

**CURRENT TOTAL=80**

<b>Low</b>															
A & A FLUID POWER LLC	1220	W	ALVAREZ	AVE		92868			5084		130617	Lower Santa Ana River	Low	12,000 sf	Ray Anderson
ADAIR ROOFING INC	2390	N	AMERICAN	WAY		92865			1761		10380	Lower Santa Ana River	Low	4 acres	Richard Adair
CABINETS QUICK	622	W	ANGUS	AVE		92868			2400		131193	Lower Santa Ana River	Low	6800 sf	Allen Patel
R I CHEMICAL INC	632	W	ANGUS	AVE		92868			424690		75398	Lower Santa Ana River	Low	6,500 sf	Robert Day
PRECISION WATERJET	635	W	ANGUS	AVE		92868			3470		127476	Lower Santa Ana River	Low		Shane Strowski
HANDPIECE PARTS & PRODUCTS INC	707	W	ANGUS	AVE		92868			3843		79258	Lower Santa Ana River	Low	12,000 sf	Steve Bowen
TOTAL VEHICLE TECHNOLOGIES LLC	714	W	ANGUS	AVE	B	92868			2992		125604	Lower Santa Ana River	Low		Jeff Davis
SERVICE ENGINEERING ENERGY CORPORATION	726	W	ANGUS	AVE	C	92868			238220		154576	Lower Santa Ana River	Low		Alicia Marisol Miguez
GARRIOT ENTERPRISES INC	726	W	ANGUS	AVE	H	92868			493110		143707	Lower Santa Ana River	Low		Lee Garriot
SHIELDS & HARPER & CO	731	W	ANGUS	AVE		92867			2911			Lower Santa Ana River	Low		Barton Scowley
ADVANCED CERAMIC TECHNOLOGY	803	W	ANGUS	AVE		92868			423630		43220	Lower Santa Ana River	Low	9,900 sf	Eric Roberts
A & J CRATES	800	W	BARKLEY	AVE	F	92868			2499		133435	Lower Santa Ana River	Low		Josefina Rodriguez
LALO'S CABINETS	810	W	BARKLEY	AVE	B	92868			2499		96358	Lower Santa Ana River	Low	1200 sf	Gerardo Briseno

City of San Jose  
Industrial Facility Inventory FY '11-'12

Facility Name	Street Number	Street Direction	Street Name	Street Type	St. Unit	Zip Code	Longitude	Latitude	SIC/NAIC Code	WDID	Business License No.	Watershed	Priority	Fac. Size (Oper)	Ownership Info/Contact
ORANGE COAST CUSTOM MILWORKS	810	W	BARKLEY	AVE	C-E	92868			321918		118775	Lower Santa Ana River	Low	2,000 sf	Boris Lopez
LIZETH MARBLE DESIGNS	811	W	BARKLEY	AVE		92868			102128		1743	Lower Santa Ana River	Low		Polo Sanchez
LIFEFORM DESIGN	929	W	BARKLEY	AVE		92868			7336		132589	Lower Santa Ana River	Low		Travis L Mahoney
B & K MANUFACTURING	938	W	BARKLEY	AVE	G	92868			3541		20140	Lower Santa Ana River	Low		Bill Brannan
E J B ENTERPRISES	1011	W	BARKLEY	AVE		92865			3542		130132	Lower Santa Ana River	Low	9,000 sf	Cheri A Ford
SHAMROCK FILM INC	1012	W	BARKLEY	AVE		92868			2673		41496	Lower Santa Ana River	Low	4250 sf	Sean Echstein
GRAPHICS WEST PRINT & LITHO	1103	W	BARKLEY	AVE		92868			323110		56226	Lower Santa Ana River	Low	5500 sf	Salvador Gonzales
BERENDSEN FLUID POWER INC	1106	W	BARKLEY	AVE		92868			5969/7699		116854/88023	Lower Santa Ana River	Low	8700 sf	Ian Hill
T & L VACUUM MOLDS INC	1117	W	BARKLEY	AVE		92868			3089		117103	Lower Santa Ana River	Low	10,000 sf	Tony Lam
BARKLEY SHEET METAL / SOUTH COAST ROOF	1132	W	BARKLEY	AVE		92868			3444 / 1761		95089 / 21893	Lower Santa Ana River	Low	12,000 sf	Edward Lambert
THOMAS GRAY & ASSOCIATES	1205	W	BARKLEY	AVE		92868			4226 / 3714		5801 / 5892	Lower Santa Ana River	Low	6900 sf	Thomas Gray
TOP SHELF WOODWORKS	1210	W	BARKLEY	AVE		92867			1500			Lower Santa Ana River	Low		Harry Bainbridge
TRUEFORM FABRICATED METALS LLC	1220	W	BARKLEY	AVE		92868			3499		125318	Lower Santa Ana River	Low	2500	David Beaver
CALCLEAN INC	551	N	BATAVIA	ST	C	92868			332911		158195	Lower Santa Ana River	Low		Noel Shenol
FRONTIER EQUIPMENT DESIGN	575	N	BATAVIA	ST		92867			3713		122350	Lower Santa Ana River	Low		Ruben Escalera
CUSTOM COMFORT MATTRESS	579	N	BATAVIA	ST		92868			337125		154555	Lower Santa Ana River	Low		
RADIAN AUDIO ENGINEERING	600	N	BATAVIA	ST		92868			3999		81872	Lower Santa Ana River	Low		Richard Konrims
ORANGE COAST MASONRY	601	N	BATAVIA	ST		92868			5039		82729	Lower Santa Ana River	Low		Todd Essenmacher
ABSOLUTE CHEM-DRY/CARPET PROS	700	N	BATAVIA	ST		92868			7217		120290	Lower Santa Ana River	Low		Saeed Paymozd
PHOENIX ROD & BAIT CO	758	N	BATAVIA	ST	A	92868			5091		124704	Lower Santa Ana River	Low		Charles Bencic
1 ST CHOICE/CASTLEROCK ROOFING & SHEET METAL INC	760	N	BATAVIA	ST		92868	-117.86221356700	33.79827521260	1761	125550/125556/108434		Lower Santa Ana River	Low		Chris Larson
C & J CONCRETE INC	805	N	BATAVIA	ST		92868			238110		229119	Lower Santa Ana River	Low		Carlos Soto
ASSOCIATED LABORATORIES	806	N	BATAVIA	ST		92868			7389		11600	Lower Santa Ana River	Low	20,000 sf	Tito Parola
DISK-O-TIC TOOL & DIE	952	N	BATAVIA	ST		92868			5084		56333	Lower Santa Ana River	Low		Paul Leite
SINISTER STEEL RACING LLC	954	N	BATAVIA	ST		92867			5013		125333	Lower Santa Ana River	Low		Brandon Berge
VALENZUELA'S MACHINE SHOP	975	N	BATAVIA	ST	B	92867			3569		90990	Lower Santa Ana River	Low	3000sf	Francisco Valenzuela
WRIGHT DESIGNS LLC	982A	N	BATAVIA	ST	7	92867			332322		153487	Lower Santa Ana River	Low		Mary B Wright
ARGOS SIGNS & MAINTENANCE CO INC	982B	N	BATAVIA	ST	6	92867			238210		153494	Lower Santa Ana River	Low		Robb O Lewis
PACIFIC SUPPLY CO	985	N	BATAVIA	ST		92868			5033		120314	Lower Santa Ana River	Low		Rob Keen
SIGNATURE KIT CHEN DESIGN/CONTRACTOR	1010	N	BATAVIA	ST	E	92867			236220		153907	Lower Santa Ana River	Low		Farouq (Fred) H Jarrah
JTB SUPPLY CO INC	1030	N	BATAVIA	ST	A	92867			5899		98392	Lower Santa Ana River	Low	10,000 sf	Jeffrey York
MANAGED MOBILE INC	1030	N	BATAVIA	ST	B	92867			111633		4780	Lower Santa Ana River	Low	8,000 sf	Paul Rypalski
MESA WEST INTERNATIONAL INC	1060	N	BATAVIA	ST	B	92867			3541		133382	Lower Santa Ana River	Low		Timothy J Walker
ETERNITY WINDOWS & DOORS	1060	N	BATAVIA	ST	A	92867			332510		154578	Lower Santa Ana River	Low		
MAGCOMP INC	1060	N	BATAVIA	ST	F	92867			3999		90782	Lower Santa Ana River	Low	4,000 sf	Thang Nguyen
EMPIRE PARKING LOT SERVICES	1080	N	BATAVIA	ST		92867			1794		133203	Lower Santa Ana River	Low		Scott A Flores
MERCURY DISPOSAL SYSTEM INC	1080	N	BATAVIA	ST	Q	92867			3080		121196	Lower Santa Ana River	Low		John Burnett Jr
LABELTRONIX	1097	N	BATAVIA	ST		92867			3569		103489	Lower Santa Ana River	Low	23,000 sf	Bradley Blair
AMERICOAT POWDERCOATING	1114	N	BATAVIA	ST		92867			3470		130010	Lower Santa Ana River	Low	10,000 sf	William Coad
TIM BEACH GLASS INC	1210	N	BATAVIA	ST	C	92867			1793		121683	Lower Santa Ana River	Low		Timothy Beach
JUST INTERIORS	1210	N	BATAVIA	ST	D	92867			1542		122482	Lower Santa Ana River	Low		James Gemmell
DAVID A DOLL ENTERPRISES	1210	N	BATAVIA	ST	G	92867			4226		132369	Lower Santa Ana River	Low		
BATAVIA FURNITURE REFINISHING	1210	N	BATAVIA	ST	A	92867			7641		128932	Lower Santa Ana River	Low		John R Sullivan
TRUSTED ROOFING CO	1223	N	BATAVIA	ST	E	92867			2950		134557	Lower Santa Ana River	Low		Benjamin Donei
ORCO PLUMBING	1247	N	BATAVIA	ST		92867			1711		132820	Lower Santa Ana River	Low		James L Yates
BAUS CONSTRUCTION	1401	N	BATAVIA	ST		92867			236220		143402	Lower Santa Ana River	Low		Adam Martinez
TITAN DEVELOPMENT GROUP	1407	N	BATAVIA	ST		92867			236220		153850	Lower Santa Ana River	Low		Frank I Knopp
DIVERSIFIED WOOD DESIGNS	1408	N	BATAVIA	ST		92867			2469		44336	Lower Santa Ana River	Low	4700sf	Willis Swanstrom
BISCO ENVIRONMENTAL INC	1411	N	BATAVIA	ST	112	92867			339999		124950	Lower Santa Ana River	Low		James Donelan
CABINETS STONE DESIGN INC	1418	N	BATAVIA	ST		92867			1743		130069	Lower Santa Ana River	Low		
KAMAN INDUSTRIAL TECHNOLOGIES CORP	1440	N	BATAVIA	ST		92867			5080		132381	Lower Santa Ana River	Low		
R & R WOODWORKS INC	1448	N	BATAVIA	ST		92867			2434		134559	Lower Santa Ana River	Low		Roland Roy
CHALLENGE FINANCIAL SERVICES INC	1450	N	BATAVIA	ST		92867			493110		154307	Lower Santa Ana River	Low		
CHESTERO CONSTRUCTION CORP	1456	N	BATAVIA	ST		92867			236220		154308	Lower Santa Ana River	Low		
NEW LIFE FINISHING	1458	N	BATAVIA	ST		92867			2491		124103	Lower Santa Ana River	Low		
G G O CABINETS/ HERITAGE CABINET DOOR CO	1480	N	BATAVIA	ST		92867			2434		117289	Lower Santa Ana River	Low	2,480 sf	Sammy Muriel
THE TRIDENT CO	1488	N	BATAVIA	ST	B	92867			5051		108759	Lower Santa Ana River	Low	25,000 sf	Oscar Zepeda
RADIUS POWER INC	1751	N	BATAVIA	ST		92865			3679		122406	Lower Santa Ana River	Low		Thomas Bently
POLO'S MARMOL	1787	N	BATAVIA	ST		92867			3281		102826	Lower Santa Ana River	Low	32,000 sf	Bob Singh
ROADWAYS INTERNATIONAL INC	1785	N	BATAVIA	ST		92865			485510		107021	Lower Santa Ana River	Low		Leopoldo De Jesus
SOLAR GUARD COATINGS INC/RETAIL/WHOLESALE	1841	N	BATAVIA	ST		92865			5039		134038/39	Lower Santa Ana River	Low		
PATRICK'S SIGNS INC	1938	N	BATAVIA	ST	J	92865			339950		154535	Lower Santa Ana River	Low		Roger S Johnson
VERTICAL ACCESS INC	2015	N	BATAVIA	ST		92865			1799		125647	Lower Santa Ana River	Low		
ORANGE COUNTY CRATING	2179	N	BATAVIA	ST		92865			423310		60185	Lower Santa Ana River	Low	32,000 sf	Michael Martinez
EPTECH	2199	N	BATAVIA	ST	D	92865			2396		106876	Lower Santa Ana River	Low	1,000 sf	Marie Burns
ORANGE COUNTY MOULDING & DOOR	2199	N	BATAVIA	ST	F	92865			1521		122011	Lower Santa Ana River	Low		Halm Herzog
LEONARDO'S AUTHENTIC HOT RODS	2199	N	BATAVIA	ST	K	92865			3499		123588	Lower Santa Ana River	Low		Matheson Smith
SAVOY	2199	N	BATAVIA	ST	P	92865			2490		131044	Lower Santa Ana River	Low		Thomas Leonardo
THE WINDSOR FOREST CO	2199	N	BATAVIA	ST	S	92865			5021		128273	Lower Santa Ana River	Low		
CALIFORNIA SOD CENTER	2280	N	BATAVIA	ST		92865			444110		156763	Lower Santa Ana River	Low		David B Hastings
PRODIGY ELECTRIC INC	2282	N	BATAVIA	ST	B	92865			1731		132754	Lower Santa Ana River	Low		Trevor Cunningham
GRAY CABINETS & MILLWORK	2294	N	BATAVIA	ST	B	92865			1751		123919	Lower Santa Ana River	Low		David K Anderson
SCOTT ENGLISH PLUMBING INC	2322	N	BATAVIA	ST		92865			1711		131641	Lower Santa Ana River	Low		Steven Gray
ADVANCED THERMAL INSULATION	2324	N	BATAVIA	ST		92865			3433		133827	Lower Santa Ana River	Low		Scott P English
ORANGE COUNTY THERMAL INDUSTRIES INC	2328	N	BATAVIA	ST	115	92865			333414		156562	Lower Santa Ana River	Low		Eduardo Olivares
GAIO TRUCKING INC	2354	N	BATAVIA	ST		92865			4225		128963	Lower Santa Ana River	Low	32000sqft	Vincent Arnato
CRAIG'S TRI COUNTY PLUMBING INC	2365	N	BATAVIA	ST		92865			1711		47433/116471	Lower Santa Ana River	Low	11,000 sf	William Craig
J D K DRILLING	2372	N	BATAVIA	ST		92865			1799		125404	Lower Santa Ana River	Low		Judith Krioch
CONTINENTAL CONCRETE CUTTING	2410	N	BATAVIA	ST		92865			1799		95192	Lower Santa Ana River	Low		Michael Schmidt

**City of Orange  
Industrial Facility Inventory FY '11-'12**

Facility Name	Street Number	Street Direction	Street Name	Street Type	St. Unit	Zip Code	Longitude	Latitude	SIC/NAIC Code	WDID	Business License No.	Watershed	Priority	Fac. Size (Oper)	Ownership Info/Contact
ORANGE COUNTY SANDBAGGER	2424	N	BATAVIA	ST		92865			1799/3999		99163/29805	Lower Santa Ana River	Low		Rick Tankersley
AMERICAN TECHNOLOGIES, INC	210	W	BAYWOOD	AVE		92865			1540		83002	Lower Santa Ana River	Low	104,544 sf	Gary Moore
SYSTECHS	249	W	BAYWOOD	AVE	B	92867			1799		80855	Lower Santa Ana River	Low	87,500 sf	Linda Galleran
AIR CABIN ENGINEERING INC	231	W	BLUERIDGE	AVE		92865			3728		95203	Lower Santa Ana River	Low	24,000 sf	Fred Seitz
IDEO CO	431	W	BLUERIDGE	AVE		92865			1731		104234	Lower Santa Ana River	Low		David Amhelter
WILLS WING INC	500	W	BLUERIDGE	AVE		92865			423910		122786	Lower Santa Ana River	Low	14,500 sf	Steven Pearson
PRINTING DIVISION INC	549	W	BLUERIDGE	AVE		92865			323119		43001	Lower Santa Ana River	Low	6,700 sf	Cyrus Noorila
RACELINE PRODUCTS INC	521	W	BRIARDALE	AVE		92865			3489		122778	Lower Santa Ana River	Low		Robert Anstead
SELECT MACHINERY INC	528	W	BRIARDALE	AVE		92865			5999		65583	Lower Santa Ana River	Low	10,000 sf	Bill Callihan
PROTYPE FABRICATION/ GP MANUFACTURING	541	W	BRIARDALE	AVE		92865			3999		59452	Lower Santa Ana River	Low	17,500 sf	Greg Gilbert
A S R NOW	1150	W	BRIARDALE	AVE	B	92865			339999		155550	Lower Santa Ana River	Low		Kathleen Hayne
SIGN MASTER / ACTION QDV INC	125	E	BRISTOL	LN		92865			3993		122779	Lower Santa Ana River	Low		Michael Morgan
CORRUGATED MACHINERY SPECIALISTS INC 2ND LOC	125	E	BRISTOL	LN		92865			493110		156659	Lower Santa Ana River	Low		Jan H Verbeek
ADLER MAKAY	120	W	BRISTOL	LN		92865			321999		108000	Lower Santa Ana River	Low	6700 sf	Thomas Brown
MER CAL INC	231	E	BRISTOL	LN		92865			2834		105485	Lower Santa Ana River	Low		D. Baltzell
VICTORY SHEETMETAL INC	204	W	CARLETON	AVE	B	92867			1761		88935	Lower Santa Ana River	Low		Dale Parker
LEX JET SOUTHERN CALIFORNIA	204	W	CARLETON	AVE	A	92867			3555		121025	Lower Santa Ana River	Low		Arthur Lambert
CUSTOM FOOD EQUIPMENT LLC	1552	N	CASE	ST		92867			3444		122747	Lower Santa Ana River	Low		George Aboumerhi
FULL SPECTRUM ANALYTICS INC	1554	N	CASE	ST		92867			3826		103443	Lower Santa Ana River	Low	5300 sf	Tom Fider
TRITEK CIRCUIT PRODUCTS INC	1719	N	CASE	ST		92865			5080		84633	Lower Santa Ana River	Low	11,000 sf	Sam Morgan
TRANSITIONS TECHNOLOGIES INC	1739	N	CASE	ST		92865			339999		118061	Lower Santa Ana River	Low		Edward Chen
LIMOS BY MOONLIGHT	1742	N	CASE	ST		92865			3711		127802	Lower Santa Ana River	Low	21,000	Erick Quintana
CENSOURCE INC	1790	N	CASE	ST		92865			1731		102013	Lower Santa Ana River	Low	18,500 sf	Timothy Pitts
SWANSON-ANAHEIM CORPORATION	1811	N	CASE	ST		92865			3590		113083	Lower Santa Ana River	Low	28,300 sf	Douglas Swanson
MERLEX STUCCO	1838	N	CASE	ST		92865			5039		130118	Lower Santa Ana River	Low		
ANDERSON AIR CONDITIONING LP	1872	N	CASE	ST		92865			1711		122537	Lower Santa Ana River	Low		Mitch Haynam
PACIFIC BELL	911	E	CHAPMAN	AVE		92866			561499		36206	Lower Santa Ana River	Low		Glen Baldeschwiler
SYZYGY CUSTOMS	504	W	CHAPMAN	AVE	R	92868			4226		123234	Lower Santa Ana River	Low		Brian Oreck
PACIFIC BELL	4245	W	CHAPMAN	AVE		92868			561499		36211	Los Al/E.Gard Grv/B.C.	Low		Glen Baldeschwiler
BAPKO METAL INC	1130	N	CITRUS	ST		92867			238990		154599	Lower Santa Ana River	Low		Fred Bagatourian
PRO COAT INC	1131	N	CITRUS	ST		92867			238990		143698	Lower Santa Ana River	Low		Daniel Trujillo
S E INDUSTRIES INC	300	W	COLLINS	AVE		92867			2434		88872	Lower Santa Ana River	Low		Jan Schaffer
SEALMASTER OF SOUTHERN CALIFORNIA	719	W	COLLINS	AVE		92867			2891		129083	Lower Santa Ana River	Low		Gregory Farkas
BCI COMMUNICATION INC	810	W	COLLINS	AVE		92867			1540		124702	Lower Santa Ana River	Low		Richard Berliner
WOOD N FORGE ART STUDIO	911	W	COLLINS	AVE		92867			2499		134018	Lower Santa Ana River	Low		Jason M Stimps
PHIL'S SPEED SHOP	937	W	COLLINS	AVE	941	92867			3714		49751	Lower Santa Ana River	Low		Philip Buhrigae
KUSTOM 1 UPHOLSTERY	1041	W	COLLINS	AVE	B. C	92867			2396		95318	Lower Santa Ana River	Low	4,900 sf	Octavio Gutierrez
BLUE RIBBON WOOD WORK	1041	W	COLLINS	AVE	D	92867			2499		120774	Lower Santa Ana River	Low		Joyhn Sparrow
ANTHONY'S MOVING SERVICE	1136	W	COLLINS	AVE		92867			4212		89931	Lower Santa Ana River	Low	1,200 sf	Dena Cohen
MAKAI CONSTRUCTION CO	1235	W	COLLINS	AVE		92867			1542		122077	Lower Santa Ana River	Low		Patrick McCall
FILTRATION SERVICES COMPANY	1238	W	COLLINS	AVE		92867			339999		102165	Lower Santa Ana River	Low		Kenneth Adams
MICRO WEST INC	1312	W	COLLINS	AVE		92867			27131		5199	Lower Santa Ana River	Low	12,500 sf	Paul Williams
DUNLAVY RACING CAMS	1328	W	COLLINS	AVE		92868			339999		13988	Lower Santa Ana River	Low		Robert Dunlavy
RAVCO CONSTRUCTION INC	1340	W	COLLINS	AVE		92867			236220		156635	Lower Santa Ana River	Low		James Reing
E HARDWOODS INC	1439	W	COLLINS	AVE		92867			5031		117782	Lower Santa Ana River	Low		Kimbell Smalley
KEN KIRKLAND ENTERPRISE INC	1442	W	COLLINS	AVE	E	92867			333811		108327	Lower Santa Ana River	Low		Kenneth Kirkland
LAURAL PACKAGING GROUP SOUTH INC	1548	W	COLLINS	AVE		92867			561910		133780	Lower Santa Ana River	Low		James D Hoffman II
DARUNFAR MARBLE CORPORATION	1548	W	COLLINS	AVE		92867			444110		156590	Lower Santa Ana River	Low		Qing Liu
MODERN SAFETY SUPPLY / JANITOR'S WAREHOUSE	1601	W	COLLINS	AVE		92867			423850		154418	Lower Santa Ana River	Low		
JCM PACKAGING INC	1604	W	COLLINS	AVE		92867			2650		112012	Lower Santa Ana River	Low	36,000 sf	Jon Trefethen
MESA GARAGE DOORS	1636	W	COLLINS	AVE		92867			236220		154244	Lower Santa Ana River	Low		
U S SENSOR MEDICAL PRODUCTS LLC	1832	W	COLLINS	AVE		92867			3829		129670	Lower Santa Ana River	Low		
VERGOLA SOUTHWEST	1916	W	COLLINS	AVE		92867			5030		120494	Lower Santa Ana River	Low		John Johnston
C F I DISTRIBUTION	296	N	CYPRESS	ST		92866			5149		102287	Lower Santa Ana River	Low		Jose Martinez
BEST VALUE ROOFING'S - RESCUE ROOFER	392	N	CYPRESS	ST		92866			1761		133899	Lower Santa Ana River	Low		Sheila M Di Mauro
UNITED SIGN POST DELIVERY SERVICES	511	N	CYPRESS	ST		92867			3993		117680	Lower Santa Ana River	Low	4,900 sf	Mario Salazar
D E T	725	N	CYPRESS	ST		92867			3823		130334	Lower Santa Ana River	Low		
DAVID O WADE	840	N	CYPRESS	ST		92867			337122		117718	Lower Santa Ana River	Low		David Wade
ADVANCED ELECTRODYNAMICS SYSTEMS	880	N	CYPRESS	ST		92867			333818		09751	Lower Santa Ana River	Low	1,000 sf	David Gore
BAYSHORE TECH INC	622	N	ECKHOFF	ST		92868			1751		119407	Lower Santa Ana River	Low	5,000 sf	Arthur Contreras
SHOOTING STARS SPORTS PHOTOGRAPHY/RHED I	635	N	ECKHOFF	ST	Q	92868			7335		122576	Lower Santa Ana River	Low	1000 sf	Duane Thomas
PERFECT TOUCH PAINTING INC	645	N	ECKHOFF	ST	L	92868			236320		154001	Lower Santa Ana River	Low		
SHAMROCK SCIENTIFIC SPECIALTY	957	N	ECKHOFF	ST		92867			453998		37753	Lower Santa Ana River	Low		Michael Greco
NIEDWICK MACHINE COMPANY	965	N	ECKHOFF	ST		92867			4225		117341	Lower Santa Ana River	Low		Ted Neldwick
ALBATROSS SALES COMPANY	969	N	ECKHOFF	ST		92867			2260		118386	Lower Santa Ana River	Low	3000 sf	Krisina Murthy
FREEHAND SIGN CO	930	N	ELM	ST	1&2	92867			1731		129810	Lower Santa Ana River	Low		
L & K TECHNOLOGY INC	954	N	ELM	ST		92867			3549		120681	Lower Santa Ana River	Low		Tam Tran
PACIFIC WELDING CO INC	962	N	ELM	ST		92867			1799		129463	Lower Santa Ana River	Low		Jerry Quintana
Q T TEK	975	N	ELM	ST		92867			3499		121996	Lower Santa Ana River	Low		Alan Ngo
ESDEE ROOF CO	980	N	ELM	ST		92867			238160		153503	Lower Santa Ana River	Low		Samuel Davis
CLYDE BERG HEADS	989	N	ELM	ST		92867			3714		125402	Lower Santa Ana River	Low		Clyde Berg
ABSOLUTE SOLUTIONS	145	E	EMERSON	AVE		92865			7899		79920	Lower Santa Ana River	Low	6400 sf	Draper & Pollock
LIMOSINE AUTO GLASS	146	E	EMERSON	AVE		92865			327212		154380	Lower Santa Ana River	Low		
BLASTPRO MANUFACTURING INC	210	E	EMERSON	AVE		92865			5084		132998	Lower Santa Ana River	Low		Michael R Nelson
MUDANZAS VALLARTA INC	945	N	ENTERPRISE	ST		92867			488991		157306	Lower Santa Ana River	Low		
SOUTHERN CALIFORNIA CRATING INC	946	N	ENTERPRISE	ST		92867			2449		131665	Lower Santa Ana River	Low		
G P HOT ROD FABRICATION	955	N	ENTERPRISE	ST		92867			332312		134324	Lower Santa Ana River	Low		Maria Perez
INTERNATIONAL MARINE	990	N	ENTERPRISE	ST	G	92867			3999		124562	Lower Santa Ana River	Low		Warren Robbins
ENJOY MANUFACTURING	990	N	ENTERPRISE	ST	B/F	92867			3399		124107	Lower Santa Ana River	Low		Clarissa Mejia



City of  
Industrial Facility Inventory FY '11-'12

Facility Name	Street Number	Street Direction	Street Name	Street Type	St. Unit	Zip Code	Longitude	Latitude	SIC/NAIC Code	WDID	Business License No.	Watershed	Priority	Fac. Size (Oper)	Ownership Info/Contact
ANAYA'S CUSTOM INSTALLATION	990	N	ENTERPRISE	ST	E	92867			3281		120936	Lower Santa Ana River	Low		Juan Anaya
JEFFREY TROTT INDUSTRIES, INC	1934	N	ENTERPRISE	ST		92866			2431/2434		52653/101930	Lower Santa Ana River	Low	13,000 sf	Jeffrey Trott
PATIO AND DOOR OUTLET	410	W	FLETCHER	AVE		92865			2519		109251	Lower Santa Ana River	Low	25,800 sf	Christopher Lyons
CHEEK MACHINE	820	W	FLETCHER	AVE		92865			3569		117163	Lower Santa Ana River	Low	5,500 sf	Tatiana Cheek
NATIONAL WOOD PRODUCTS INC	314	W	FREEDOM	AVE		92865			2489		99151	Lower Santa Ana River	Low		Kurt Mick
WATER HEATER MAN INC	570/590	W	FREEDOM	AVE		92865			1711		24701	Lower Santa Ana River	Low	8500 sf	Michael Powell
J J FOIL INC	650	W	FREEDOM	AVE		92865			7336		114438	Lower Santa Ana River	Low	8400 sf	Tiffany Dang
FAST EDDIE'S RACE CAR FABRICATION	1420	N	GLASSELL	ST		92867			3444/5013		85993/112094	Lower Santa Ana River	Low	8000 sf	Ed Larned
E P L SOLUTIONS	1650	N	GLASSELL	ST	K	92867			3629		129154	Lower Santa Ana River	Low		John Bartuciotto
WORSHAM RACING INC	1802	N	GLASSELL	ST		92865			4226		133186	Lower Santa Ana River	Low		Chuck E Worsham
MINIPACK AMERICA INC	1832	N	GLASSELL	ST		92865			5084		120196	Lower Santa Ana River	Low		Joseph Sleski
A R B O BOX INC	1960	N	GLASSELL	ST		92865			2440		133983	Lower Santa Ana River	Low		Robert G Wharton
CAR-AL SUPPLY & MFG CO	2090	N	GLASSELL	ST		92865			561110		135885	Lower Santa Ana River	Low		Kurt Koch
GILMORE DESIGNS INC	2106	N	GLASSELL	ST		92865			2490		119409	Lower Santa Ana River	Low		Jon Gilmore
PARAMOUNT CCL SUPPLY INC	2143	N	GLASSELL	ST		92865			3080		121178	Lower Santa Ana River	Low		Paul Lee
CAL-WALL GYPSUM SUPPLY	2180	N	GLASSELL	ST		92865			5211		7884	Lower Santa Ana River	Low		Brendan Deely
CORRUGATED MACHINERY SPECIALISTS INC	2310	N	GLASSELL	ST		92865			42380		82409	Lower Santa Ana River	Low		Jan H Verbeek
ACTIVE ENTERPRISE	2340	N	GLASSELL	ST		92865			3555		115732	Lower Santa Ana River	Low	12,000 sf	Todd Davis
PIONEER PIPE	2430	N	GLASSELL	ST	A	92865			423390		154373	Lower Santa Ana River	Low		
F & C MICRODRILLS REPOINT SERVICE	2440	N	GLASSELL	ST		92867			7699		132200	Lower Santa Ana River	Low		Jesus Fuentes
MACHINE MAINTENANCE & REPAIR	2440	N	GLASSELL	ST	F	92865			333298		153460	Lower Santa Ana River	Low		Jean Neave
WELDTOL TECHNOLOGIES	2440	N	GLASSELL	ST	X	92865			423830		154363	Lower Santa Ana River	Low		Liliana Tretsky
SCOTT'S SCREEN PRINTING SERVICE	2466	N	GLASSELL	ST	A&B	92865			2759		77324	Lower Santa Ana River	Low	3,200 sf	Scott Shopshire
J & M PRODUCTION	349	W	GROVE	AVE		92865			7319		106063	Lower Santa Ana River	Low	5,000 sf	
CWS COIL WINDING SPECIALIST	353	W	GROVE	AVE		92865			335999		117771	Lower Santa Ana River	Low	5,000 sf	James/Siew Lau
HI-TECH STENCILS INC	365	W	GROVE	AVE		92865			333992		117616	Lower Santa Ana River	Low	5,000 sf	Kevin Wong
H B WOODWORKS	373	W	GROVE	AVE		92865			238350		117751	Lower Santa Ana River	Low	3,500 sf	Richard Warah
MS INTERNATIONAL	615	W	GROVE	AVE		92865			4226		117586	Lower Santa Ana River	Low	260,000 sf	Manahar Shah
CARRIER SALES AND DISTRIBUTION	615	W	GROVE	AVE		92865			5074		123613	Lower Santa Ana River	Low		Elizabeth Hagerty
SIGLER WHOLESAL DISTRIBUTORS	615	W	GROVE	AVE		92865			423710		153644	Lower Santa Ana River	Low		John J Sigler
EPLASTERING INC	732	W	GROVE	AVE		92865			1742		122311	Lower Santa Ana River	Low		Darrell Ford
THE MARKETING ADVANTAGE	932	W	GROVE	AVE		92865			2759		131836	Lower Santa Ana River	Low		Cynthia E Marks
RAPID MANUFACTURING/CUSTOM PLASTIC MODIFICATION	1044	W	GROVE	AVE		92865			335999		39152	Lower Santa Ana River	Low	20,000 sf	Dan Lang
CENTURY INDUSTRIES	1130	W	GROVE	AVE		92865			2741		80981	Lower Santa Ana River	Low	8,000 sf	Donald Bibona
JORY FAMILY TRUST	1144	W	GROVE	AVE		92865			4225		97985	Lower Santa Ana River	Low		John Jory
CALIFORNIA ANALYTICAL INSTRUMENTS	1312	W	GROVE	AVE		92865			452990		73054/79975	Lower Santa Ana River	Low	30,000 sf	Roger Furton
CMF / METALTEK	1317	W	GROVE	AVE		92865			1761/3444		57331/123579/1000	Lower Santa Ana River	Low	20,000 sf	Dave Ductelt
PRO-LOK	655	N	HARITON	ST		92868			3499		81420	Lower Santa Ana River	Low	14,000 sf	Adam Weinraub
WHEEL SOLUTIONS	701	N	HARITON	ST		92868			5014		115802	Lower Santa Ana River	Low	13,000 sf	Jeffrey Barton
ACS HYDRAULICS	756	N	HARITON	ST		92868			5080		27411	Lower Santa Ana River	Low	8,000 sf	Stephan Drilling
AMERICAN DOOR TECH	1030	W	HOOVER	AVE		92867			811490		153796	Lower Santa Ana River	Low		James Alford
PERFORMANCE IMPORTS	1030	W	HOOVER	AVE		92867			3711		57577	Lower Santa Ana River	Low		John Alford
C J ROGERS ELECTRONICS	326	W	KATELLA	AVE	4-B	92867			5063		80457	Lower Santa Ana River	Low		Carol Rogers
Z RACING INC	608	W	KATELLA	AVE		92867			5571		120726	Lower Santa Ana River	Low		Mark Zoller
STAR INSTRUMENT CO	619	W	KATELLA	AVE		92867			3542		82330	Lower Santa Ana River	Low	5,000 sf	Renate Quintin
GRAPHIC SYSTEMS/COPY BOY PRINTING	625	W	KATELLA	AVE	1 & 2	92867			2759		03802	Lower Santa Ana River	Low		Deborah Godfrey
G T FILMS	625	W	KATELLA	AVE	5	92867					154007	Lower Santa Ana River	Low		Antonio Juarez
B M MACHINING INC	625	W	KATELLA	AVE	7	92867			3540		134318	Lower Santa Ana River	Low		Miguel A Balderas
ZYMO RESEARCH CORP	625	W	KATELLA	AVE	30	92867			2636/4226		107469/107500/1171	Lower Santa Ana River	Low		Xiyu Jia
PARADISE PAINTING	633	W	KATELLA	AVE	D	92867			1721		119488	Lower Santa Ana River	Low		Roy Miller
JET PCB ASSEMBLY	633	W	KATELLA	AVE	Q	92867			3670		127731	Lower Santa Ana River	Low	5,000 sf	Bryant Seller
KENNEDY ENGINEERING	633	W	KATELLA	AVE	P	92867			3999		43097	Lower Santa Ana River	Low	2,300 sf	Michael Kennedy
ACCU SIGNS & GRAPHIC DESIGN	610	W	KATELLA	AVE		92867			339950		154061	Lower Santa Ana River	Low		Shaima Matin
DIAMED INC	1050	W	KATELLA	AVE	B	92867					153827	Lower Santa Ana River	Low		Robert Brasher
KEITH MOHRMANN TROPICAL GLASS	1050	W	KATELLA	AVE	C	92867			1793		130359	Lower Santa Ana River	Low		
ALLEN MOLD INC	1100	W	KATELLA	AVE	L - P	92867			3544		91201	Lower Santa Ana River	Low	5,400 sf	Clayton Allen
MICHISAKI ENTERPRISES:R M	1100	W	KATELLA	AVE	K	92867			3599		88402	Lower Santa Ana River	Low	1,500 sf	Richard Michisaki
SCORE RIGHT PUBLISHING CO	1746	W	KATELLA	AVE	4	92867			2741		99821	Lower Santa Ana River	Low	3,200 sf	Marie Longo
CUSTOM WOOD CARVING	1746	W	KATELLA	AVE	8	92867			2490		130028	Lower Santa Ana River	Low		
RANCHO TECHNOLOGY IND	1746	W	KATELLA	AVE	9	92867			3499		81685	Lower Santa Ana River	Low		Scott Smith
COMPENDIUM INTERNATIONAL INC	1855	W	KATELLA	AVE	340	92867			236220		143440	Lower Santa Ana River	Low	1,700 sf	Fariha Khan
EL CAMINO ASPHALT PAVING INC	784	N	LEMON	ST		92867			238910		111782	Lower Santa Ana River	Low		Harvey Silva Jr
CAR CRAZY INC	944	N	LEMON	ST		92867			5960		131906	Lower Santa Ana River	Low		Chris D Unger
REGAL COMMERCIAL SERVICES	1016	N	LEMON	ST		92867			1540		130440	Lower Santa Ana River	Low		
SAXTON RACING & RESTORATION	1140	N	LEMON	ST	J	92867			3711		130694	Lower Santa Ana River	Low		
V & J CUSTOM CABINETS	1140	N	LEMON	ST	L	92867			2434		121427	Lower Santa Ana River	Low		Jose Palares
THE OLDTIMER LLC	1140	N	LEMON	ST	N	92867			2490		131428	Lower Santa Ana River	Low		Michael Slaven
ORANGE COUNTY SILKSCREENING FINISHINGS	1140	N	LEMON	ST	R	92867			3470		121220	Lower Santa Ana River	Low		George Atlano
DEPLOYED LOGISTICS INC	429	W	LEVERS	PL		92867			485998		155563	Lower Santa Ana River	Low		Kevin Mc Carten
ALL AMERICAN GLASS FABRICATORS	1911	N	LIME	ST		92865			3231		53321	Lower Santa Ana River	Low	10,000 sf	Mushaq Danugar
ELITE HVAC	336	N	LINCOLN	AVE		92866			238990		143735	Lower Santa Ana River	Low		Chris Hall
BRONCO ROOFING	811	E	LINCOLN	AVE		92865			238160		155542	Lower Santa Ana River	Low		Mark Brunkow
H WEST EQUIPMENT	645	N	MAIN	ST		92868			1540		101885	Lower Santa Ana River	Low		Kim Jaker
MIKE'S SIGN WORLD	651	N	MAIN	ST		92868			3993		130129	Lower Santa Ana River	Low		
WESTERN PRINTING & GRAPHICS	675	N	MAIN	ST		92866			2752		85752	Lower Santa Ana River	Low		Aaron Smith
JB3D / JOHN BISHOP DESIGN INC	731/743	N	MAIN	ST		92868			1731/3600		94975/128020	Lower Santa Ana River	Low	15,000 sf	John Bishop
MAD SYSTEMS INC	733	N	MAIN	ST		92868			7369		117467	Lower Santa Ana River	Low		Patricia A Rodriguez
INTELLIGENT POWER SOLUTIONS	741	N	MAIN	ST		92865			423390		155503	Lower Santa Ana River	Low		Robert Inman
FLEXICON PACIFIC INC/WHOLESALE	745	N	MAIN	ST		92868			5182		104811	Lower Santa Ana River	Low	5,000 sf	Steven Smith

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Industrial Facility Inventory FY '11-'12**

Facility Name	Street Number	Street Direction	Street Name	Street Type	St. Unit	Zip Code	Longitude	Latitude	SIC/NAIC Code	WDID	Business License No.	Watershed	Priority	Fac. Size (Oper)	Ownership Info/Contact
INTEGRATED ENERGY SYSTEMS	747	N	MAIN	ST		92668			1731		129859	Lower Santa Ana River	Low		
TRUE MARK INC	770	N	MAIN	ST	H	92668			3993		124990	Lower Santa Ana River	Low		John Bishop
STANDARD PRINTED PRODUCTS CO	804	N	MAIN	ST		92668			2741		60545	Lower Santa Ana River	Low		Thomas Clark
AMUSEMENT ELECTRONICS COMPANY/2ND LOCATION	815	N	MAIN	ST		92668			3690		91903	Lower Santa Ana River	Low		Frank Coxa
E G F CUSTOM QUALITY SIGNS	877	N	MAIN	ST		92667			3993		123091	Lower Santa Ana River	Low		Manuel Garcia
R L H INDUSTRIES INC/ MANUFACTURING	928/932	N	MAIN	ST		92667			3660		120635	Lower Santa Ana River	Low		Robert Harris
KUSTOM IMPRINTS	950	N	MAIN	ST		92667			5999		81511	Lower Santa Ana River	Low		Mark Kuli
V G M INC	963	N	MAIN	ST		92667			7620		129474	Lower Santa Ana River	Low		Bill T Ly
SO CAL CONTRACTORS & REMODELING INC	973	N	MAIN	ST		92667			236220		154649	Lower Santa Ana River	Low		Adrian Nuncz
OUTBACK PATIO & SUNROOMS INC	973	N	MAIN	ST		92667			236220		153788	Lower Santa Ana River	Low		Steve Winters
EDGEWOOD PRESS INC	1130	N	MAIN	ST		92668			2750		127345	Lower Santa Ana River	Low		Joseph Tardie
WE DO GRAPHICS INCORPORATED	1150	N	MAIN	ST		92667			7336		107854	Lower Santa Ana River	Low	22000 sf	Douglas Le Mieux
K & D GRAPHICS	1432	N	MAIN	ST	C	92687			2759		77229/96270	Lower Santa Ana River	Low	44000 sf	Don Chew
CALIBRE DOOR CLOSERS INC	1481	N	MAIN	ST		92687			3442		118454	Lower Santa Ana River	Low		John Linder
NEED SPACE?	1485	N	MAIN	ST		92687			4225		119010	Lower Santa Ana River	Low		Christopher Rameson
TRIM-TEX INC	1487	N	MAIN	ST		92687			423320		154575	Lower Santa Ana River	Low		Joseph Koeing
SPECIALTY STEEL	1577	N	MAIN	ST		92687			1791		97903	Lower Santa Ana River	Low		Daniel Lucas
STIR FOODS LLC	1581	N	MAIN	ST		92687			2090		117814	Lower Santa Ana River	Low	40,000 sf	Philip De Carion
LABNET INC	1594	N	MAIN	ST		92687			423990		155074	Lower Santa Ana River	Low		Abbas Rajae
MC NALLEY ENTERPRISES INC	1670	N	MAIN	ST		92687			7389		72873	Lower Santa Ana River	Low		Edward McNally
ACTEX TRADING LLC	1959	N	MAIN	ST		92665			2200		134311	Lower Santa Ana River	Low		Kan A Jahani
HUDSON METALS CORPORATION	1967	N	MAIN	ST		92665			423390		155503	Lower Santa Ana River	Low		Richard Resner
RUBEN MOJARRO	1360	N	MANZANITA	ST	G	92687			493110		153922	Lower Santa Ana River	Low		Ruben Mojarr
AQUA BEN CORPORATION/WHOLESALE	1390	N	MANZANITA	ST		92687			5169		34824/98128	Lower Santa Ana River	Low	10000 sf	John Ben
JACK'S CUSTOM CABINETS	1395	N	MANZANITA	ST		92687			236990		137638	Lower Santa Ana River	Low		Jack P Sappington
SPECIALIZED PRODUCTS & DESIGN INC	1428	N	MANZANITA	ST		92687			3082		94547	Lower Santa Ana River	Low	5800 sf	Dennis Bergdorf
FOUNDATION BUILDING MATERIALS LLC	1431	N	MAIN	ST		92687			444110		155516	Lower Santa Ana River	Low		Ruben Mendoza
CREATIVE ORNAMENTAL IRON	1432	N	MANZANITA	ST	E	92687			3315		133993	Lower Santa Ana River	Low		Cesar Ramos
ALL CUSTOM POLISHING	1437	N	MANZANITA	ST	M	92687			8999		76779	Lower Santa Ana River	Low		Daniel & Vera Nevarez
SPECIALIZED BUILDING PRODUCTS	145	W	MEATS	AVE		92685			2650		104581	Lower Santa Ana River	Low	18,000 sf	Daniel Schiefelbein
THE SOCO GROUP INC	218	E	MEATS	AVE		92685			424720		155889	Lower Santa Ana River	Low		H Scott, Mc Owen
CORPORATE RELOCATION SERVICES INC	224	E	MEATS	AVE		92685			4214		127127	Lower Santa Ana River	Low		Terri Gemi
M & R ENGINEERING	227	E	MEATS	AVE		92685			333611		153620	Lower Santa Ana River	Low		Dick Wilmot
RITE LOOM CUSTOM STONEWORKS INC	422	W	MEATS	AVE		92685			3281		121352	Lower Santa Ana River	Low		George Lowe
CALIFORNIA MFG INC	460	W	MEATS	AVE		92688			3599		102319	Lower Santa Ana River	Low		Phuong Nguyen
GREENCOAST ANAHEIM LLC/ GC HYDROPONICS	496	W	MEATS	AVE		92685			5200		124295	Lower Santa Ana River	Low		Jordan Weiss
NICE K FLOOR INC	476	W	MEATS	AVE		92665			321999		154583	Lower Santa Ana River	Low		
PALLMAR & COMPANY	1830	N	NEVILLE	ST		92685			1799		53512	Lower Santa Ana River	Low		Paul Proulx
CISCO SPECIALTY PRODUCTS INC	1738	N	NEVILLE	AVE		92685			5084		116500	Lower Santa Ana River	Low	14,000 sf	Sheryl Czekalski
SKB CORPORATION/ #2 ADD. = 434 W LEVERS	1607	N	ODONNELL	WAY		92687			7389		96458	Lower Santa Ana River	Low		Steven Kottman
BEST MOVING SERVICE	1623	N	ODONNELL	WY	A	92687			4212		108676	Lower Santa Ana River	Low	5,500 sf	James Gleeson
AMERICAST LLC	1623	N	ODONNELL	WY	B	92687					154062	Lower Santa Ana River	Low		Vidul Patel
C 3 CASTING INC	1623	N	ODONNELL	WY	B	92687					158110	Lower Santa Ana River	Low		
CALIBER SEALING SOLUTIONS INC	1648	N	ODONNELL	WY		92687			332911		156689	Lower Santa Ana River	Low		Paul Tovar
CUTTINGEDGE IONS LLC	1667	N	ODONNELL	WAY		92687			423990		156689	Lower Santa Ana River	Low		Brian Doherty
S K A SYSTEMS CORP	1525	W	ORANGEGROVE	AVE	A	92668			3679		122902	Lower Santa Ana River	Low		Chung-Shing Fern
A L T ENTERPRISES	1525	W	ORANGEGROVE	AVE	B	92668			423910		153824	Lower Santa Ana River	Low		
K 2 CNC	1643	W	ORANGEGROVE	AVE		92668			3640		131090	Lower Santa Ana River	Low		
HOEDRA INC	1607	W	ORANGEGROVE	AVE	D	92688			3540		134161	Lower Santa Ana River	Low	12,000 sf	Kevin Libeon
SHANNON STORAGE	2025	N	ORANGE OLIVE	RD		92665			3490		117339	Lower Santa Ana River	Low	3800 sf	Charla Menold
PACIFIC BELL	2525	N	ORANGE-OLIVE	RD		92655			4225		10958	Lower Santa Ana River	Low		Robert Shannon
ORANGE COUNTY OFFICE PRODUCTS	1521	W	ORANGEWOOD	AVE		92668			581499		36214	Lower Santa Ana River	Low		Glen Baldeschwiler
CARROLL RACING DEVELOPMENT INC	1537	W	ORANGEWOOD	AVE		92668			2761		70054	Lower Santa Ana River	Low		Curtis Stickfort
METAL WORKS	1539	W	ORANGEWOOD	AVE	A	92688			332911		157314	Lower Santa Ana River	Low		
BEDROSIAN TILE & MARBLE	2176	N	PACIFIC	ST		92685			1799		121548	Lower Santa Ana River	Low		Chris Gibson
PACIFIC HARDWOOD	2202	N	PACIFIC	ST		92685			3253		114331	Lower Santa Ana River	Low	5 Acres	Janice Bedrosian
VALUE OUTSOURCING SOLUTION LLC	2341	N	PACIFIC	ST		92685			5211		131437	Lower Santa Ana River	Low	130,000 sf	Kevin King
AMERICAN INTEGRATED RESOURCES INC	2341	N	PACIFIC	ST		92685			493110		155522	Lower Santa Ana River	Low		Martin Wolff
CREATIVE COACH BUILDERS	955	N	PARKER	ST		92687			236220		153529	Lower Santa Ana River	Low		Gerald Adkerson
BIG IRON	1014	N	PARKER	ST		92687			3711		117810	Lower Santa Ana River	Low	4,000 sf	Leo Salas
ORANGE COAST PETROLEUM EQUIPMENT INC	1015	N	PARKER	ST		92687			3317		129129	Lower Santa Ana River	Low	11,000 sf	Joe Magliato
SCOTT'S TOPS & TUBS	1214	N	PARKER	ST	11	92687			423830		54824	Lower Santa Ana River	Low	16,000 sf	John Miller
ORANGE WOODWORKS INC	1215	N	PARKER	ST		92687			2540		122253	Lower Santa Ana River	Low		Gregory Parrish
KREGER FABRICATION INC	1245	N	PARKER	ST	B	92687			1751		102469	Lower Santa Ana River	Low	12,000	Jeff McMillen
K & S INDUSTRIAL TIRE SALES, L.L.C.	1245	N	PARKER	ST	A	92687			3499		99133	Lower Santa Ana River	Low	7,000 sf	Derek Kreger
ORANGE COUNTY STRIPING	183	N	PIXLEY	ST		92668			5014		116391	Lower Santa Ana River	Low	8,000 sf	Keeler Thompson
ADVANCED MEDICAL BUILDERS INC	571	N	POPLAR	ST	E	92668			1799		7834	Lower Santa Ana River	Low	55,000 sf	Robert Patterson
AVIX GLOBAL LLC	571	N	POPLAR	ST	G	92668			1500		131599	Lower Santa Ana River	Low		Greg S. Laube
ZIP-N-SQUEEZE PRODUCTS	634	E	POPLAR	ST	E	92668			423690		155812	Lower Santa Ana River	Low		
PARADISE FASTENERS	634	N	POPLAR	ST	J	92688			2673		132187	Lower Santa Ana River	Low		
ULTRASOUND AUDIO INC	634	N	POPLAR	ST	M	92668			2741		77435	Lower Santa Ana River	Low		Ken Castillo Jr.
INTERCORP/ U S NITTO	641	N	POPLAR	ST		92688			1790		134249	Lower Santa Ana River	Low		Tony Leal
LORD BYRON INC	671	N	POPLAR	ST		92688			5084		156442	Lower Santa Ana River	Low		Yoshimi Abe
UNIQUE GARAGE DOOR INC	671	N	POPLAR	ST		92688			3442		132971	Lower Santa Ana River	Low		Bernard Smokowski
UNITED METAL PRODUCTS INC	671	N	POPLAR	ST		92688			332321		158114	Lower Santa Ana River	Low		
BEACH PAVING INC/HUSKER LESING LLC	748	N	POPLAR	ST		92668			332911		153658	Lower Santa Ana River	Low		Bernard Smokowski
MEGA PALLETS INC	749	N	POPLAR	ST		92668			4225		78602	Lower Santa Ana River	Low		Curt Rummel
MATERIALS TRANSPORT SERVICES	6145	E	SANTIAGO CANYON	RD		92669			5039		132093	Lower Santa Ana River	Low		Christian Gardea
SIMPLEX GRINNELL	1701	W	SEQUOIA	AVE		92668			444110		156896	Lower Santa Ana River	Low		Michael Carver
									1799		108079	Lower Santa Ana River	Low		James Spire

City of Orange  
Industrial Facility Inventory FY '11-'12

Facility Name	Street Number	Street Direction	Street Name	Street Type	St. Unit	Zip Code	Longitude	Latitude	SIC/NAIC Code	WDID	Business License No.	Watershed	Priority	Fac. Size (Oper)	Ownership Info/Contact
NATURAL SOURCE PRINTING	1831	W	SEQUOIA	AVE		92668			2800		133170	Lower Santa Ana River	Low		Jeff Salisbury
LABEL IMPRESSIONS INC	1831	W	SEQUOIA	AVE		92668			2759		102447	Lower Santa Ana River	Low	10,000 sf	Ted Salisbury
GATEWAY INTERNATIONAL WORLDWIDE INC	1202	W	SHELLY	CT		92668					154043	Lower Santa Ana River	Low		Gillian S Johnson
PRODUCTION EQUIPMENT SPECIALTIES INC	1229	W	SHELLY	CT		92668			811310		155488	Lower Santa Ana River	Low		Sandra Kendrick
CHIANTI CONSTRUCTION INC	730	W	SOUTHERN	AVE		92665			1540		128749	Lower Santa Ana River	Low	13,000	Joe Carri
EARTHTONIC ENVIRONMENTAL ENG CONST & DEVELOP	1113	W	STRUCK	AVE		92667			236220		154556	Lower Santa Ana River	Low		
A-FAB PACKAGING	1208	W	STRUCK	AVE		92667			561910		73415	Lower Santa Ana River	Low	6000 sf	Bryan Rogers
G & D TRUCKING	1212	W	STRUCK	AVE		92667			4212		133932	Lower Santa Ana River	Low		Barbara G Waterman
CRASS TOOLING & MACHINERY INC	1523	W	STRUCK	AVE	C	92667			3549		131593	Lower Santa Ana River	Low		William H Crass
E I P CUSTOM SHUTTERS & FINISHING	1523	W	STRUCK	AVE	C	92667			2541		120658	Lower Santa Ana River	Low		Gonzales & Robles
FULL THROTTLE KARTING INC	1547	W	STRUCK	AVE	C	92667			3711		108185	Lower Santa Ana River	Low		Andrew Seesemann
DECKSIDE POOL SERVICE	1547	W	STRUCK	AVE	E	92667			1799		123005	Lower Santa Ana River	Low		Fred Ross
OUTSIDE THE BOX CABINETRY	1547	W	STRUCK	AVE	F	92667			1751		123248	Lower Santa Ana River	Low		Christopher Rieff
DITTEMORE INSULATION CONTRACTORS INC	1619	W	STRUCK	AVE		92667			1742/5099		99874/93055	Lower Santa Ana River	Low		Craig Childress
SUTTON COMPOSITES INC	212	W	TAFT	AVE		92665			3769		119936	Lower Santa Ana River	Low		Gerald Sutton
DURASYSTEMS LLC	307	W	TAFT	AVE	D	92665			326111		143709	Lower Santa Ana River	Low		Bob Graulson
ALTEMP ALLOYS INC	330	W	TAFT	AVE		92665			5051		119912	Lower Santa Ana River	Low	23,000 sf	Connie Mayhill
INK SYSTEMS INC	415	W	TAFT	AVE	AB	92665			2752		132219	Lower Santa Ana River	Low		
DREAMWORKS REMODELING	415	W	TAFT	AVE	C	92665					153984	Lower Santa Ana River	Low		Lester G O'Malley
CLYDESDALE TAPING TOOLS	415	W	TAFT	AVE	D	92665			444110		153876	Lower Santa Ana River	Low		Ramon Tapanes
COMMUNICATION SPECIALISTS INC/RETAIL	426	W	TAFT	AVE		92665			3699		22528/101155	Lower Santa Ana River	Low	20,000 sf	Albert S Porter
MILLER INC/H L	747	W	TAFT	AVE		92665			1540		116793	Lower Santa Ana River	Low		Howard Miller
DEMARZO'S CUSTOM WOOD PRODUCTS	1032	W	TAFT	AVE		92665			1751		118291	Lower Santa Ana River	Low	2500 sf	Frank Demarzo
A-ACTIVE RELOCATION	1130	W	TRENTON	AVE		92667			4214		91827	Lower Santa Ana River	Low		William Martin
SOCAL PLASTICS	1250	W	TRENTON	AVE		92667			3080		127952	Lower Santa Ana River	Low		Constantina Milian
ORANGE COUNTY PET WAREHOUSE	1960	N	TUSTIN	ST		92665			270		134172	Lower Santa Ana River	Low		Peter J Valenti
RAYMOND-OUTSIDE THE LINES A JOINT VENTURE	520	W	WALNUT	AVE		92668			236220		154503	Lower Santa Ana River	Low		
GETZ CORPORATION	539	W	WALNUT	AVE		92668			339920		109449	Lower Santa Ana River	Low		Michael Paulsen

Total Current= 355



## Exhibit A-9.I

### Commercial Inventory

City of Orange  
Commercial Inventory 20011-2012

Facility Name	St. No.	St. Dir.	Street Name	St. Type	Unit #	Zip Code	SIC/NAI C Code	Business License No.	Long.	Lat.	Ownership Info	Watershed	Priority
<b>AUTOMOBILE MECHANICAL REPAIR, MAINTENANCE, FUELING OR CLEANING (Includes Auto &amp; Motorcycle Dealers)</b>													
<b>Transportation Services, Not Elsewhere</b>													
HYELAND AUTO ROAD SERVICE	1127	W	ALVAREZ	AVE		92867	488999	94606			Vahe Frank Bitar	Lower Santa Ana River	Low
<b>Automobiles and Other Motor Vehicles</b>													
AMERICAN MOVING PARTS	714	W	ANGUS	AVE	G	92868	5013	122909	-117.85988975900	33.79855229960	David Seewack	Lower Santa Ana River	Low
NAPA AUTO PARTS #070	1422	N	BATAVIA	ST		92867	5013	134251			Tom Gallagher	Lower Santa Ana River	Low
EDDY & DAVE'S GARAGE	800	W	BARKLEY	AVE	N	92868	5013	134124			David R Omel	Lower Santa Ana River	Low
MORSE, R.V.	982	N	BATAVIA	ST	B-#1C	92867	5013	124449	-117.86235697600	33.80398379020	Roy Morse	Lower Santa Ana River	Low
ALL SMOG STATION INC	3301	E	CHAPMAN	AVE	D	92869	811198	153687			Bich Duong	Lower Santa Ana River	Low
MOUNTAIN VIEW TIRE & SERVICE	4935	E	CHAPMAN	AVE		92869	5014	99554	-117.80049296900	33.78787379030	Nicholas Mitsos	San Diego Creek	Low
WHITEWALL CANDY STORE	968	N	ELM	ST		92867	5013	128012	-117.869618	33.80387	William H Nunes	Lower Santa Ana River	Low
PERMIER PROTECTIVE FILMS INT.	544	W	KATELLA	AVE		92867	5013	131132			Kristopher S Ong	Lower Santa Ana River	Low
PROJECT IMPORT COM	1729	W	KATELLA	AVE		92867	441310	153720			Bryan Friday	Lower Santa Ana River	Low
SOUTHLAND MOTORING	1731	W	KATELLA	AVE		92867	5013	132886			Darren D'Amuro	Lower Santa Ana River	Low
GENE BERG ENT	1721	N	LIME	ST		92865	5013	8531	-117.86337623400	33.81639310700	Dolores V Berg	Lower Santa Ana River	Medium
VINTIQUE INC	1828	W	SEQUOIA	AVE		92868	5012	8805	-117.872138	33.79807	Chad Looney	Lower Santa Ana River	Medium
HWY AUTO INC	1119	W	STRUCK	AVE		92867	5014	125690	-117.86375500000	33.80670500000	Robert M Staup	Lower Santa Ana River	Low
JUST TIRES	410	N	TUSTIN	ST		92867	5013	65926	-117.83611021500	33.79384406010	odyear Tire & Rubber	Lower Santa Ana River	Low
<b>5511 MOTOR VEHICLE DEALERS (NEW/USED)</b>													
PENNINGTON'S INC	1016	W	BARKLEY	AVE		92868	5511	49483			Charles E Pennington	Lower Santa Ana River	Low
SELMAN CHEVROLET CO	1800	E	CHAPMAN	AVE		92867	5511	7992			William H Selman	Lower Santa Ana River	High
DAVID WILSONS FORD & MAZDA OF ORANGE	350 / 136	W	KATELLA	AVE		92867	5511	83325, 118128, 1	-117.86663915100	33.80866402140	David W Wilson	Lower Santa Ana River	Medium
STADIUM NISSAN	1140	W	KATELLA	AVE		92867	5511	126314			John K Garff	Lower Santa Ana River	Medium
TOYOTA OF ORANGE INC	1400	N	TUSTIN	ST		92867	5511	50223	-117.836379	33.811046	David W Wilson	Lower Santa Ana River	Medium
VILLA FORD INC	2550	N	TUSTIN	ST		92865	5511	8723			Brian Butler	Lower Santa Ana River	Medium
<b>5521 MOTOR VEHICLE DEALERS (USED)</b>													
FARGO AUTOMOTIVE	316	W	BRENNA	LN		92867	441120	127533			Walter T Froemke	Lower Santa Ana River	Low
KARCO AUTO SALES	721	N	BATAVIA	ST	B	92868	5521	121872	-117.86164992100	33.79907014830	Richard Kartzozian	Lower Santa Ana River	Low
AUTOMART QUALITY CARS	940	N	BATAVIA	ST		92867	5521	94801	-117.86210517000	33.80322089110	Randall Shaw	Lower Santa Ana River	Low
INFINITIF AUTO SALES INC	623	W	CHAPMAN	AVE		92868	5521	154155	-117.85921241600	33.78821600960	Jilaliel Basri	Lower Santa Ana River	Low
BEST DEAL AUTO BROKERS	730	W	CHAPMAN	AVE		92868	5521	103350	-117.86030074300	33.78746453530	Albert J Gabrielli	Lower Santa Ana River	Low
E Z E AUTO BROKERS TWO/2ND LOCATION	1040	W	CHAPMAN	AVE		92868	5521	104214	-117.84257444400	33.78753622660	Draza Knezevich	Lower Santa Ana River	Low
MIKES PLACE	1138	W	CHAPMAN	AVE		92868	5521	120590	-117.86477755000	33.78756048360	Elsa E Shuster	Lower Santa Ana River	Low
AFFORDABLE AUTO WHOLESALERS	1209	W	CHAPMAN	AVE		92868	5521	116183			Marisol Chavez	Lower Santa Ana River	Low
ORANGE EMPIRE AUTO CENTER	1935	E	CHAPMAN	AVE		92867	5521	131531	-117.83301466900	33.78798343420	John M Boenau	Lower Santa Ana River	Low
20TH CENTURY ENTERPRISES	844	N	ELM	ST	K	92867	5521	41754	-117.87021023500	33.80151175600	Ronald K Erickson	Lower Santa Ana River	Low
ELLIS AUTO SALES:DUDE	973	N	ELM	ST		92867	5521	88123	-117.86875346900	33.80365582580	Dude G Ellis	Lower Santa Ana River	Low
ORANGE EMPIRE MOTORS INC.	210	W	KATELLA	AVE		92867	5521	79380			John Boenau	Lower Santa Ana River	Low
G L D AUTO	741	W	KATELLA	AVE		92867	441120	156116				Lower Santa Ana River	Low
NET CARS USA INC	448	W	KATELLA	AVE		92867	5511	134271			Johnnie N Liddi	Lower Santa Ana River	Low
MAC MOTORS	1400	E	KATELLA	AVE	212	92867	441110	156677			Elahe Mahjoobi	Lower Santa Ana River	Low
HOLLYWOOD MOTORSPORTS-OC	1742	W	KATELLA	AVE	3	92867	441120	154708			Evan A Domanic	Lower Santa Ana River	Low
AUTO BUYER & SELLER INC	1280	N	PARKER	ST		92867	5521	126554	-117.86008185400	33.80847488880	Reza Tamjidi	Lower Santa Ana River	Low
A Z MOTORS	1121	W	STRUCK	AVE		92867	441110	154037	-117.86372927100	33.80635186170	Behzad J Forghani	Lower Santa Ana River	Low
ENTERPRISE CAR SALES #32RH/SALES	1925	N	TUSTIN	ST		92865	5521	86437	-117.83576083100	33.82005537780	Ed Butler	Lower Santa Ana River	Low
<b>5541 GASOLINE SERVICE STATIONS</b>													
BIG E:THE	890	N	BATAVIA	AVE		92867	5541	124814	-117.86218608300	33.80210618250	James Olin Moorcroft	Lower Santa Ana River	Low
VALERO/HM FUEL	1630	E	CHAPMAN	AVE		92869	5541	125702/129573			Thomas Ameer Doss	Lower Santa Ana River	Low
E & H SHELL	1914	E	CHAPMAN	AVE		92867	5541	127018	-117.83327318900	33.78740538070	Edward Oson	Lower Santa Ana River	low
MOBIL OTR #11442	2504	E	CHAPMAN	AVE		92867	5541	61013	-117.82672633500	33.78746270830	Lee Raymond	Lower Santa Ana River	Low
ARCO AM/PM	2937	E	CHAPMAN	AVE		92869	5541	123527	-117.82175021900	33.78795512110	Robert Alvandi	Lower Santa Ana River	Low
DANS VALERO	3301	E	CHAPMAN	AVE		92869	5541	61612	-117.81808412800	33.78794477700	Taniel M Keheian	Lower Santa Ana River	Low
CHAPMAN SHELL	4035	E	CHAPMAN	AVE		92867	5541	61791	-117.80981728000	33.78793793930	Moutia Assaf	Lower Santa Ana River	Low
P & S MOBIL	4502	E	CHAPMAN	AVE		92869	5541	130540			Sam Dabiri	Lower Santa Ana River	Low
ORANGE HILL UNOCAL	5344	E	CHAPMAN	AVE		92869	5541	60416			Fereidoon S Rad	San Diego Creek	Low
SANTIAGO HILLS AUTO SPA	8544	E	CHAPMAN	AVE		92869	5541	97505			Hooman Sharif	Lower Santa Ana River	Low
MITCHELLS AUTO SERVICE	700	W	CHAPMAN	AVE		92868	5541	93406	-117.85994787300	33.78753481700	Harry E Mitchell	Lower Santa Ana River	Low
CHEVRON/ORANGE CARWASH INC	1405	W	CHAPMAN	AVE		92868	5541	94121	-117.86667609500	33.78883868480	Rekha Bajaria	Lower Santa Ana River	Low
VALERO CORNER STORE	2245	W	CHAPMAN	AVE		92868	5541	128642			Douglas M Miller	Lower Santa Ana River	Low
CADNICKS INC/76 GAS	2345	W	CHAPMAN	AVE		92868	5541/7530	117114	-117.87782178200	33.78802148860	Nishant D Chudsama	Lower Santa Ana River	Low
CITY GLOCK	4105	W	CHAPMAN	AVE		92868	5541	107408	-117.89788715500	33.78909573050	Esmail Talayeh	Bolsa Chica	Low
CARDLOCK FUELS SYSTEM INC/SC FUELS	1825	W	COLLINS	AVE		92867	5541	77459	-117.87203440100	33.80256875700	Frank P Greinke	Lower Santa Ana River	Low
UNIVERSITY FOOD MRT	480	N	GLASSELL	ST		92866	5541	116057			Vahid T Farsoni	Lower Santa Ana River	Low

City of Orange  
Commercial Inventory 20011-2012

JEMS ORANGE INC	684	S	GLASSELL	ST		92866	5541	112533	-117.85348063800	33.77744584410	Jems Orange Inc	Lower Santa Ana River	Low
ED'S CHEVRON 1	105	E	KATELLA	AVE		92867	5541	130847			Edward Oson	Lower Santa Ana River	Low
ARCO FOOD STORE	825	E	KATELLA	AVE		92867	5541	125680	-117.84484478100	33.80932436420	Tarum Maitra	Lower Santa Ana River	Low
TABASSI SHELL SERVICE STATION	830	E	KATELLA	AVE		92867	5541	112731			Ahmad Tabassi	Lower Santa Ana River	Low
ORANGE KAT ARCO AM PM	1935	E	KATELLA	AVE		92867	5541	130565	-117.83311284400	33.80999702200	Ara L Wansikehian	Lower Santa Ana River	Low
WEST OAK PETROLEUM	1940	E	KATELLA	AVE		92867	5541	96910			Westoak Petroleum LLC	Lower Santa Ana River	Low
ORANGE FUEL VALERO	1650	W	LA VETA	AVE		92868	5540	122670			Shawn Setareh	Lower Santa Ana River	Low
IMPERIAL STATIONS	1234	N	MAIN	ST		92867	5541	107571	-117.86749615400	33.80821256710	David M Berri	Lower Santa Ana River	Low
ORANGE OLIVE GAS & FOOD/I & B CORP	2101	N	ORANGE OLIVE	RD		92865	5541	83558			Iraj Mirhashemi	Lower Santa Ana River	Low
VILLA PARK SHELL	2640	N	SANTIAGO	BLVD		92867	5541	119908			Surinder S Multani	Lower Santa Ana River	Low
NOHL RANCH CARWASH+A1246	2700	N	SANTIAGO	BLVD		92867	5541	111533			Divyesh R Patel	Lower Santa Ana River	Low
HASSAN 15	2844	N	SANTIAGO	BLVD		92867	5541	118987	-117.83422797500	33.83622921570	Sal Hassan	Lower Santa Ana River	Low
BINIT'S ARCO AM/PM #1	100	N	TUSTIN	ST		92867	5541	95182	-117.83610617500	33.78809515710	Bipin D Gala	Lower Santa Ana River	Low
SMOG PROS #01359	883	N	TUSTIN	ST		92867	5541	88757			Mehdi Mahdavi	Lower Santa Ana River	Low
ED'S CHEVRON	1702	N	TUSTIN	ST		92867	5541	118218	-117.83625297300	33.81613090370	Chevron USA Inc 94400	Lower Santa Ana River	Low
SHELL STATION	1815	N	TUSTIN	ST		92867	5541	122664			Bruce A Smith	Lower Santa Ana River	Low
BRAD'S VALERO	2490	N	TUSTIN	ST		92865	5541	96769	-117.83652582500	33.82988710490	Brad L Siegal	Lower Santa Ana River	Low
NIMEH INC	2493	N	TUSTIN	ST		92865	5541	103290			George Nimeh	Lower Santa Ana River	Low
CONVENIENCE RETAILERS	2756	N	TUSTIN	ST		92865	5541	126370	-117.83663388900	33.83460594380	Rod Pearcy	Lower Santa Ana River	Low
JC MARKET/J R E ENTERPRISES INC	291	S	TUSTIN	ST		92866	5541	129348	-117.83553607600	33.78451243880	Jerry C Pak	Lower Santa Ana River	Low
TUSTIN 76	615	S	TUSTIN	ST		92866	5541	126040			Rassol Eftekharian	Lower Santa Ana River	Low
JASMINES SHELL (135711)	889	S	TUSTIN	ST		92866	5541	61924	-117.83553903400	33.77343050300	smig (Jasmine) Keushge	Lower Santa Ana River	Low
<b>Recreational Vehicle Dealers</b>													
HOUSEHOLDER MOTORSPORTS	456	E	MEATS	AVE		92865	5561	125932	-117.85903895900	33.82272593460	Adam K Householder	Lower Santa Ana River	Low
<b>Motorcycle Dealers</b>													
MARTINEZ CUSTOM MOTORCYCLES:DANNY AL	1657	N	GLASSELL	ST		92867	5571	106858	-117.85235169400	33.81497737370	Alfred D Martinez III	Lower Santa Ana River	Low
IRV SEAVER MOTORCYCLES	607	W	KATELLA	AVE		92867	5571	71170	-117.85863870900	33.80922389250	Evan E Bell	Lower Santa Ana River	Medium
Z RACING INC	608	W	KATELLA	AVE		92867	5571	120726	-117.858723	33.808624	Mark Zoller	Lower Santa Ana River	Medium
ORANGE COUNTY HONDA	650	W	KATELLA	AVE		92868	5571	103073	-117.859427	33.808657	Matthew S Tachdjian	Lower Santa Ana River	Medium
GP MOTORSPORTS	736	W	KATELLA	AVE		92867	441221	154631			Jose Gutierrez	Lower Santa Ana River	Low
MISFITS MOTORSPORTS	1746	W	KATELLA	AVE		92867	441221	155304	-117.87215619500	33.80470119190	Paul Lozada	Lower Santa Ana River	Low
FREEDOM CYCLES INC	1520	W	KATELLA	AVE		92867	5571	107520	-117.86900995300	33.80760110110	Devin Wainwright	Lower Santa Ana River	Medium
<b>Automotive Dealers</b>													
FUTURE CAR CO	1746	W	KATELLA	AVE	2	92867	5599	83787	-117.87215619500	33.80470119190	Robert Biernacki	Lower Santa Ana River	Low
<b>Building Maintenance Services</b>													
<b>Auto Repair, Services and Parking</b>													
<b>Auto Rental/Leasing, Without Drivers</b>													
<b>Truck Rental and Leasing, No Drivers</b>													
ENTERPRISE RENT A TRUCK	1045	N	BATAVIA	ST		92867	7513	120935	-117.860974	33.805177	Madison Lee	Lower Santa Ana River	Medium
RYDER TRANSPORTATION SERVICES	1440	N	MAIN	ST		92867	7513	86483			Gregory T Swinton	Lower Santa Ana River	Medium
A A A RENTALS	400	N	TUSTIN	ST		92867	7513	130711	-117.83611120400	33.79347700130	Lai Wah Lee	Lower Santa Ana River	Low
<b>Passenger Car Leasing</b>													
PENNINGTONS INC	938	W	BARKLEY	AVE	H	92868	7515	91671	-117.862796	33.800423	Charles E Pennington	Lower Santa Ana River	Medium
<b>Utility Trailer/Recreational Vehicle Rental</b>													
XTRA LEASE	437	W	KATELLA	AVE		92867	7519	82222	-117.856268	33.811703	William H Franz	Lower Santa Ana River	Medium
<b>Automotive Repair Shops</b>													
ORANGE COUNTY BUGGY	822	W	ANGUS	AVE	A	92868	423120	155048	-117.86133252200	33.79855821020	Ken Lock	Lower Santa Ana River	Low
BATAVIA AUTO REPAIR	1196	N	BATAVIA	ST		92867	7530	117131	-117.86208705700	33.80776738080	Javier O Hernandez	Lower Santa Ana River	High
ALL QUALITY COLLISION & RESTORATION	1414	N	BATAVIA	ST		92867	7530	153577	-117.863019	33.811095	Richard Leong	Lower Santa Ana River	High
O & J AUTO REPAIR	2707	N	ORANGE OLIVE	RD		92865	7530	93923	-117.846795	33.833375	Oliver J Richardson	Lower Santa Ana River	High
<b>Auto Exhaust System Repair Shops</b>													
WELDING WORKS INC	748	W	ANGUS	AVE	B	92868	7533	120422			Ole Jorgensen	Lower Santa Ana River	Low
ORANGE HIGH TEST ONLY	896	N	CYPRESS	ST		92867	7533	128042			Long P Hoang	Lower Santa Ana River	Low
GENERAL MUFFLER	1202	N	GLASSELL	ST		92867	7533	131622			Mike Leach	Lower Santa Ana River	Low
<b>Automotive Transmission Repair Shops</b>													
AAMCO TRANSMISSIONS	739	W	KATELLA	AVE		92867	7538	111426	-117.86042140500	33.80921984830	John I Luna	Lower Santa Ana River	Medium
PREMIER TRANSMISSIONS	808	W	ANGUS	AVE	D	92868	7537	99318			Frank Islas	Lower Santa Ana River	Medium
<b>General Automotive Repair Shops</b>													
TOMS AUTO REPAIR	1727	E	ADAMS	AVE		92867	7538	112952			Gholam Reza Parkdelan	Lower Santa Ana River	Medium
LATINOS AUTO REPAIR	748	W	ANGUS	AVE	D	92868	7538	127413	-117.86057060500	33.79855946250	Juan J Jimenez	Lower Santa Ana River	High
T G CUTTING EDGE MOTORSPORTS	808	W	ANGUS	AVE	A	92868	7538	128917			Jose A Garcia	Lower Santa Ana River	Medium
SOCAL MOTOR WORKS	808	W	ANGUS	AVE	B	92868	7538	129761			Andy Yang	Lower Santa Ana River	High

City of Orange  
Commercial Inventory 20011-2012

TRANSMEISTER	836	W	ANGUS	AVE		92868	7538	63531			Detlef H J & P Reich	Lower Santa Ana River	High
TANO'S AUTO SERVICE	821	W	BARKLEY	AVE		92868	7538	130125			Richard Mercado	Lower Santa Ana River	High
O C MASTER TECHS	938	W	BARKLEY	AVE	A	92868	811198	155405			Donald E. Howard	Lower Santa Ana River	Low
MATHER'S AUTO	1014	W	BARKLEY	AVE		92868	7538	13149	-117.86323172700	33.80053773270	Jason Mather	Lower Santa Ana River	High
QUICKS AUTOMOTIVE	1237	W	BARKLEY	AVE		92868	7538	58276	-117.865929	33.801551	Rose L Dallies	Lower Santa Ana River	High
CAR CLINIC	578	N	BATAVIA	ST		92868	7538	118437	-117.86218292400	33.79660491310	Edward B Wolff	Lower Santa Ana River	High
KARCO	721	N	BATAVIA	ST		92868	7538	124703			Richard Kartozian	Lower Santa Ana River	Medium
PRESTIGE AUTO CENTER	965	N	BATAVIA	ST	A-D	92867	811111	155051	117.861244	33.803353	David Henderson	Lower Santa Ana River	Low
ORANGE AUTO DETAIL & BODY REPAIRS	967	N	BATAVIA	ST	A-C	92867	811121	156605	-117.86157247600	33.80344688390	Jesus C Alvarez	Lower Santa Ana River	High
EL CALVARIO AUTO REPAIR	969	N	BATAVIA	ST	A	92867	7530	131415	-117.86157247600	33.80344688390	Alfredo Garcia	Lower Santa Ana River	High
DANIELS AUTOMOTIVE CONCEPTS	969	N	BATAVIA	ST	B	92867	811198	154955			Dan L Moore	Lower Santa Ana River	Low
BODY MASTER COLLISION CENTER	969	N	BATAVIA	ST	C	92867	811198	156659			Danny Lopez	Lower Santa Ana River	Low
ACCURATE ALIGNMENT & SERVICE	971	N	BATAVIA	ST	A	92867	811198	154273	-117.86157199000	33.80354539220	Christopher W Short	Lower Santa Ana River	Low
BELLS AUTOMOTIVE	971	N	BATAVIA	ST	D	92867	7538	53201	-117.86157199000	33.80354539220	William F Bell Jr	Lower Santa Ana River	Low
RICK KREHER'S KUSTOMS	975	N	BATAVIA	ST	D	92867	811198	154301	-117.86157097300	33.80375170980	Rick Kreher	Lower Santa Ana River	Medium
PROFORMANCE MOTORING ACCESSORIES	982B	N	BATAVIA	ST	1A	92867	441310	33073			Tom Greiner	Lower Santa Ana River	Low
JOHNSON MOTORCARS INC	982	N	BATAVIA	ST	B12 & 1	92867	7538	108089	-117.86235697600	33.80398379020	Gary R Johnson	Lower Santa Ana River	Low
ORANGE AUTOMOTIVE	1188	N	BATAVIA	ST		92867	7538	100777			Robert L Anderson	Lower Santa Ana River	Low
SOUTHLAND AUTO SPEED & MARINE	1210	N	BATAVIA	ST	A	92867	7538	133869			Trevor G Grisenti	Lower Santa Ana River	Medium
ALFA PERFORMANCE CONNECTION	1753	N	BATAVIA	ST		92865	7537	111309	-117.86144426200	33.81700793850	ewart & C F Sandema	Lower Santa Ana River	Medium
DUNCANS AUTO SERVICE	2172	N	BATAVIA	ST		92865	7538	64407	-117.86264004400	33.82352387540	Gregory A Duncan	Lower Santa Ana River	Low
MARK OYLERS BODY & PAINT	2199	N	BATAVIA	ST		92865	7538	122962	-117.86190763900	33.82464793710	Mark A Oyler	Lower Santa Ana River	Medium
V'S AUTO REPAIR & PERFORMANCE	2199	N	BATAVIA	ST	Q	92865	811198	154453			Vlado Jancev	Lower Santa Ana River	Low
GORDON'S AUTO WORKS	2221	N	BATAVIA	ST		92865	7538	14097	-117.86191128100	33.82484456740	Gordon H Williams	Lower Santa Ana River	Medium
J & B IMPORTS	2296	N	BATAVIA	ST	A	92865	7538	60190	-117.86459781300	33.82622145390	Roe S Clark III	Lower Santa Ana River	Low
M A AUTO SERVICE & PARTS	1150	W	BRIARDALE	AVE	L	92865	7538	30390	-117.86457639500	33.81661123990	Mohamed Asgar	Lower Santa Ana River	High
FAT PERFORMANCE	1558	N	CASE	ST		92867	7538	21278	-117.85891810300	33.81354554190	Ronald J Fleming	Lower Santa Ana River	Medium
MIDAS	1922	E	CHAPMAN	AVE		92867	7538	126797	-117.83297106100	33.78740977770	Joshua S Cameron	Lower Santa Ana River	Low
INSTANT LUBE	4428	E	CHAPMAN	AVE		92869	7538	69301	-117.80619308300	33.78742958140	Richard C Erickson	Lower Santa Ana River	Low
ORANGE HILLS AUTOCARE PLUS	5344	E	CHAPMAN	AVE	A	82869	7538	119809			Jocelyn N Bernardo	Lower Santa Ana River	Low
SANTIAGO HILLS AUTO CARE CENTER	8544	E	CHAPMAN	AVE	B	92869	7538	97506			Hooman Sharif	San Diego Creek	Low
PLAZA MUFFLER & AUTOMOTIVE SERVICES	237	W	CHAPMAN	AVE	1	92866	811111	154303	-117.85508838100	33.78807767230	Kenny Robles	Lower Santa Ana River	Medium
HOFFMAN RADIATOR SERVICE	237	W	CHAPMAN	AVE		92866	7538	45627	-117.85508838100	33.78807767230	Donald Kelly	Lower Santa Ana River	Medium
SNOWS FOREIGN & DOMESTIC CAR	324	W	CHAPMAN	AVE		92866	7538	109939	-117.855882	33.787716	Daniel H Snow	Lower Santa Ana River	High
LAKE'S AUTO SHOP	700	W	CHAPMAN	AVE		92868	7538	73156			Elroy L Lake	Lower Santa Ana River	Medium
JOHNS AUTO SERVICE	705	W	CHAPMAN	AVE		92868	7538	58681	-117.85984659400	33.78803736810	Cheon Yong Chang	Lower Santa Ana River	Low
807 CHAPMAN CAR CARE	807	W	CHAPMAN	AVE		92868	7538	122893	-117.86098625200	33.78804903380	Jesse J Pascal	Lower Santa Ana River	High
TOP TUNE AUTOMOTIVE REPAIR	904	W	CHAPMAN	AVE		92868	7538	132528			Ulises Lopez-Terrazas	Lower Santa Ana River	High
TITAN AUTOMOTIVE	939	W	CHAPMAN	AVE		92868	7538	58543			Mike Fry	Lower Santa Ana River	Low
AUTO & DIESEL SERVICE	1020	W	CHAPMAN	AVE		92868	7539	105948	-117.86333737800	33.78760376580	Fernando Martinez	Lower Santa Ana River	Low
HARRY'S MARINE ENGINE SERVICE	1141	N	CITRUS	ST		92867	811310	42757			Harold A Ingram	Lower Santa Ana River	Low
COLLINS AUTO CARE	641	W	COLLINS	AVE		92867	7538	125221	-117.85947502500	33.80253770590	Armando G Flores	Lower Santa Ana River	Low
BROOKS ORANGE BODY & PAINT	735	W	COLLINS	AVE		92867	7538	113332	-117.86047344400	33.80253581390	Mark H Brooks	Lower Santa Ana River	Medium
JOE SCHMOES CUSTOMS	735	W	COLLINS	AVE		92867	7538	129736			George J Morisette	Lower Santa Ana River	Medium
KREATIVE KUSTOMS PAINTING	735	W	COLLINS	AVE		92867	811121	156785			Dwayne Adams	Lower Santa Ana River	Low
ORANGE MUFFLER SERVICE/DEFIANT TRUCK	821	W	COLLINS	AVE		92867	7538	68002	-117.86115102200	33.80253689330	Paul W Fox Jr	Lower Santa Ana River	Low
WESTCOAST AUTOBAHN	841	W	COLLINS	AVE		92867	7538	83698			Steve Kulina	Lower Santa Ana River	Low
T & J PERFORMANCE CENTER	1002	W	COLLINS	AVE		92867	7538	105638			Michael S Barnett	Lower Santa Ana River	Medium
AUTO MECHANIC REPAIR	1045	W	COLLINS	AVE	D	92867	7538	127081	-117.86365475000	33.80254076290	Ruben Gonzalez	Lower Santa Ana River	Medium
EL CAPORAL AUTO SOLUTIONS	1045	W	COLLINS	AVE	B	92867	7538	128668	-117.86365475000	33.80254076290	Maria E Castro	Lower Santa Ana River	High
OLD TOWN ORANGE AUTO	1439	W	COLLINS	AVE		92868	811111	133136			Peter J Nelson	Lower Santa Ana River	Low
JIM'S SUSPENSION SERVICE	143	N	CYPRESS			92867	7538	20807	-117.85618159000	33.78870935420	James L Kominski	Lower Santa Ana River	Low
ANGEL GARAGE	773	N	CYPRESS	ST	2	92867	7538	130350			Juan Godinez	Lower Santa Ana River	High
BRAUN AUTO WORKS	844	N	CYPRESS	ST		92867	7538	55860	-117.85667486100	33.80159475610	Timothy R Braun	Lower Santa Ana River	Low
CYPRESS AUTO REPAIR & TIRES	886	N	CYPRESS	ST		92867	7538	120386	-117.85667291000	33.80211077280	Enrique Sanchez	Lower Santa Ana River	Low
L B S AUTO & TRUCK REPAIR	890	N	CYPRESS	ST		92867	7538	74697	-117.85667316000	33.80217949920	Leo A Vidal	Lower Santa Ana River	Low
A 1 AUTOMOTIVE INC	1935	N	ENTERPRISE	ST		92865	811111	131676			Brian K Byfield	Lower Santa Ana River	Low
M S T PRO AUTO INC	202	N	GLASSELL	ST		92866	7538	132641	-117.85342540600	33.78992720700	Moulouk S Tehrani	Lower Santa Ana River	Low
MALONEYS TRANSMISSION CENTER	1404	N	GLASSELL	ST		92867	7538	98051	-117.85335478500	33.81072915970	Maria I Gonzalez	Lower Santa Ana River	High
ORANGE AUTO CARE	1432	N	GLASSELL	ST	B	92867	7538	121504			Osep Vartanian	Lower Santa Ana River	High
ROYS AUTO ELECTRIC	1665	N	GLASSELL	ST		92867	7538	8791			Brian Gabel	Lower Santa Ana River	Low
AUTO TEK	1670	N	GLASSELL	ST		92867	7538	53149	-117.85332229500	33.81539173680	eecher & Schellenber	Lower Santa Ana River	Low
RICKS TRUCK WORK	1962	N	GLASSELL	ST		92865	7538	123179			Richard A Benvenuto	Lower Santa Ana River	Medium
CIRCLE CITY HOT RODS	931	W	HOOVER	AVE		92867	339999	107067			James E White Jr	Lower Santa Ana River	Low
RUDY'S AUTOMOTIVE	945	W	HOOVER	AVE		92867	7538	119910			Gregorio Miranda	Lower Santa Ana River	Medium
CRUZEN AUTO	1030	W	HOOVER	AVE	E	92867	7538	34881	-117.86347618800	33.80716126920	Don & K Lorentzen	Lower Santa Ana River	Low

City of Orange  
Commercial Inventory 20011-2012

PEP BOYS # 806	215	E	KATELLA	AVE		92867	7538	36076			Thomas Bomberg	Lower Santa Ana River	Medium
BIG O TIRES	1825	E	KATELLA	AVE		92867	5014	132790	-117.83408124100	33.80963737230	Timothy Miller	Lower Santa Ana River	Low
JIFFY LUBE SERVICE CENTER #1457	433	W	KATELLA	AVE		92867	7538	108145	-117.85749067400	33.80922038980	Jim Jafari	Lower Santa Ana River	Low
BRITISH MOTOR SERVICE	521	W	KATELLA	AVE		92867	7538	65975	-117.85772607300	33.80922506180	Arthur C Nisson III	Lower Santa Ana River	High
BARKER'S CUSTOM CHOPPERS	633	W	KATELLA	AVE	E	92867	811198	156137				Lower Santa Ana River	Low
ORANGE AUTO CENTER	741	W	KATELLA	AVE		92867	7538	112136			Adib Toro	Lower Santa Ana River	Medium
TURBO CITY INC	1137	W	KATELLA	AVE		92867	7538	93922			Tom Miller	Lower Santa Ana River	Medium
F C E CAR CARE CENTER	135	N	LEMON	ST		92866	7538	117208	-117.85510296300	33.78856645550	Hsiao Chun Chu	Lower Santa Ana River	Medium
GLOBAL AUTO TECK	714	N	LEMON	ST		92867	7538	132480			Mario Escuita	Lower Santa Ana River	High
KINGS AUTO CLINIC	850	N	LEMON	ST		92867	7538	118535	-117.85564070600	33.80163582270	Frederick R Mauck	Lower Santa Ana River	Low
M J B TRANSPORT REFRIGERATION	1148	N	LEMON	ST		92867	7699	72419	-117.85551333500	33.80704227990	Ferol W Preston	Lower Santa Ana River	Low
ORANGE MOTORS	150	E	LINCOLN	AVE		92865	7538	91361			Camilla Ford	Lower Santa Ana River	Low
ECONO LUBE N TUNE #142	845	E	LINCOLN	AVE		92865	7538	119045	-117.84464838400	33.83665557030	Mohammad Shahid	Lower Santa Ana River	Medium
STEVES INDEPENDENT REPAIR	120	W	LINCOLN	AVE		92865	7538	27291			Stephen E Aven	Lower Santa Ana River	High
AUTOHAUS EUROPE	695	N	MAIN	ST		92868	7538	96500	-117.86639069200	33.79891211700	Joseph R Jaques	Lower Santa Ana River	High
UNITED AUTOMOTIVE SERVICE	777	N	MAIN	ST		92868	7538	62288			John P Lougran	Lower Santa Ana River	Medium
AUTO PROS	816	N	MAIN	ST		92868	7538	128564	-117.86692197200	33.80089071650	Sam Kashou	Lower Santa Ana River	Medium
AUTO CARE PLUS	1030	N	MAIN	ST	C	92867	7538	117714	-117.86730934300	33.80478272330	Snyder & Snyder	Lower Santa Ana River	Low
MAIN AUTO CARE	193	S	MAIN	ST		92868	7538	130067			Garro Bitar	Lower Santa Ana River	High
CORTEZ AUTO REPAIR	1432	N	MANZANITA	ST	D	92867	7538	132976			Juan M Cuayahuitl	Lower Santa Ana River	Low
OLIVE GARAGE INC.	2845	N	ORANGE OLIVE	RD		92865	7538	99578			Ronald G Risse	Lower Santa Ana River	Medium
CURTS GARAGE	232	W	PALM	AVE		92866	7538	3858	-117.85481130900	33.79098352970	Dotson & Dotson	Lower Santa Ana River	Low
GREGS ORANGE AUTO	921	N	PARKER	ST		92867	7538	58272	-117.85964263300	33.80274934930	Greg Berardino	Lower Santa Ana River	High
DE VITO'S AUTO REPAIR	1059	N	PARKER	ST		92867	7538	50287	-117.85967330600	33.80525213550	Tim McGerrick	Lower Santa Ana River	Low
TRUCK LUBRICATION CO	143	S	PIXLEY	ST		92868	7538	24298			Robert D Bumstead	Lower Santa Ana River	Medium
HI-LINE MERCEDES BENZ AUTOCARE	134	N	RANCHO SANTIAGO	BLVD		92869	7538	88270/102716	-117.80161735600	33.78838380080	Mathew W Hegwood	San Diego Creek	Medium
BILLS AUTO REPAIR	1523	W	STRUCK	AVE	J, K	92867	7539	25390	-117.86870662400	33.80616198720	William Gerstenberg	Lower Santa Ana River	Low
AUTOBAHN IMPORT SERVICE	1547	W	STRUCK	AVE	J	92867	7538	88184	-117.86906569400	33.80616345100	Michael A Holmes	Lower Santa Ana River	Low
DESHLERS QUALITY COLLISION REPAIRS	1133	W	TAFT	AVE		92865	7538	58065	-117.86437344000	33.81583349310	Todd & Tim Deshler	Lower Santa Ana River	Medium
JAPANESE CARS	1211	W	TRENTON	AVE		92867	7538	21298	-117.86539176500	33.81110058930	Norichika Teshima	Lower Santa Ana River	Low
SOLO TIRE PROS	144	N	TUSTIN	ST		92867	7538	107909			Raymond M Gilinsky	Lower Santa Ana River	Low
ALL AMERICAN TIRE DEPOT	310	N	TUSTIN	ST		92867	7538	79283	-117.83610103500	33.79162603330	Ara Tchaghlassian	Lower Santa Ana River	Low
FIX N GO AUTO SERVICE	318	N	TUSTIN	ST		92867	7538	127832	-117.83609624600	33.79189435820	Tawab Mayar	Lower Santa Ana River	High
FIRESTONE TIRE & SERVICE CO	1690	N	TUSTIN	ST		92867	7538	105490	-117.83623932700	33.81540070120	Larry Magee	Lower Santa Ana River	Low
SEARS AUTO REPAIR CENTER	2100	N	TUSTIN	ST		92865	452111	8908			Linda Cooper	Lower Santa Ana River	Low
<b>Automotive Repair Shops, nec</b>													
CASTREJON AUTO SERVICE	1135	W	BARKLEY	AVE	G	92868	7539	92009	-117.86457132100	33.80128169130	Francisco Castrejon	Lower Santa Ana River	Medium
D & P AUTO REPAIR	841	W	BARKLEY	AVE		92868	7539	81162	-117.86128812900	33.80153828080	Duc Ngoc Dong	Lower Santa Ana River	High
ORANGE RADIATOR SERVICE	975	N	BATAVIA	ST	A	92867	7539	119340			Norman L Sarthou	Lower Santa Ana River	Medium
J K R RACING	973	N	BATAVIA	ST	D	92867	7539	129392			Natalie Green	Lower Santa Ana River	High
CLASSIC CYCLES INC	2199	N	BATAVIA	ST	J	92865	7539	122610	-117.86190763900	33.82464793710	Anthony N Dunn	Lower Santa Ana River	Low
TOMS RADIATOR SERVICE	828	W	CHAPMAN	AVE		92868	7539	61657			Randall W Harding	Lower Santa Ana River	Medium
FERRARI TECHNOLOGIES	1131	W	COLLINS	AVE		92867	7539	50895	-117.86436384200	33.80254132370	Larry D Englehart	Lower Santa Ana River	Medium
FASTRANS	773	N	CYPRESS	ST	3	92867	7539	102868	-117.85619897300	33.79980464060	Enrique C Moreno	Lower Santa Ana River	Medium
JOSEPH HARRINGTON AUTOMOTIVE	932	N	ENTERPRISE	ST		92867	7539	47489	-117.86532576900	33.80326432060	Harrington & Quinlan	Lower Santa Ana River	Low
RESURRECTION CUSTOMS & HOTRODS	932	W	GROVE	AVE		92865	7539	131835			Christopher R Marks	Lower Santa Ana River	Low
NEWPORT RESTORATIONS	930	W	HOOVER	AVE		92867	811121	156729			Thomas Calda	Lower Santa Ana River	Medium
PERFORMANCE IMPORTS INC	1030	W	HOOVER	AVE		92867	811198	134214			John A Alford	Lower Santa Ana River	Low
SUNRISE AUTO CARE	1821	E	KATELLA	AVE		92867	7539	127389			Uzma Bhatti	Lower Santa Ana River	Medium
A B S POWER BRAKE INC/SERVICE	233	N	LEMON	ST		92866	7539	103628	-117.85511192700	33.79029894020	Pedro Gomez	Lower Santa Ana River	Medium
OC BODY TECH	134	W	LINCOLN	AVE		92865	7539	97800			Pedro Martinez	Lower Santa Ana River	Low
ORANGE INDEPENDENT	187	S	MAIN	ST		92868	7539	10537			Rick R Weber	Lower Santa Ana River	Low
OSEGUERA CUSTOM CREATIONS	408	W	WALNUT	AVE		92867	7539	133472			Elias Oseguera	Lower Santa Ana River	Low
<b>7540 AUTOMOTIVE SVCS, EXCEPT REPAIR (MOBILE DETAILERS, ETC)</b>													
EXCLUSIVE TOUCH AUTO DETAIL	333	S	ANITA	DR		92868	7540	128001	-117.88117158200	33.78394252130	Carlos Ramirez	Lower Santa Ana River	Low
AUTO DETAILING SPECIALIST	800	W	BARKLEY	AVE	F	92868	7540	134063			Frank E Corte	Lower Santa Ana River	Low
GARAGE TUNING INC	810	W	BARKLEY	AVE	A	92868	7540	132486	-117.86087493500	33.80116857450	Kevin M Wentzel	Lower Santa Ana River	High
BUBBLES CAR WASH	2422		BERN	LN		92706	7540	130137			Alfredo A Diaz		Low
EDGE DEALERS SERVICE- CONNARS DESIGNS	12622		BLUE SPRUCE	AVE		92840	7540	133369			Eduardo Ramirez	Garden Grove	Low
THE SHINE GROUP AUTO DETAILING	404	N	CAMBRIDGE	ST		92866	7540	124568	-117.84464917700	33.79345191010	Robert S Matherly	Lower Santa Ana River	Low
RED WASHER AUTO DETAILING	21141		CANADA	RD	23A	92630	7540	128242			Jeff L Gehrke Jr	Lower Santa Ana River	Low
QUALITY DETAIL IN C	333	W	CITY	BLVD		92868	7540	121117			Michael A Jaime	Westminster	Low
5 STAR SERVICES	332	S	CREST	RD		92868	7540	124407	-117.87065934400	33.78332995500	Bran Molina	Lower Santa Ana River	Low
H2O PRESSURE CLEANING	1515	N	DRESSER		3	92701	7540	130319			Jose L Mendez	Santa Ana	Low
JOSE'S MOBILE DETAIL	315		DUKE	LN		92704	7540	133816			Jose Topete	Santa Ana	Low
MARINO'S DETAIL	203	S	EARLHAM	ST		92869	7540	122262	-117.80774684200	33.78588728040	Marino Vides	Lower Santa Ana River	Low

City of Orange  
Commercial Inventory 20011-2012

XTREME XCELLENCE PROF DETAILING INC	2913		EL CAMINO REAL		624	92782	7540	132680			Rigoberto Santana	Los Angeles	Low
O C D DETAILING	958	N	ENTERPRISE	ST		92867	811192	143603			Benjamin Singleton	Lower Santa Ana River	Low
WORLD AUTO DETAILING	2020	E	FAIRWAY	DR	4	92866	811192	143386			Josue I Martinez	Lower Santa Ana River	Low
ANDRES AUTO DETAIL	7473		FOUR WINDS	CT		92880	7540	120222			Zenon Andres	San Diego Creek	Low
WENDY DETAIL	1113	W	GLENWOOD	PL		92707	7540	131971			Wendy Llamas	Santa Ana	Low
ON THE GO DETAIL	2126	N	GRANDVIEW	RD		92867	7540	122088			Steven A Reveles	Lower Santa Ana River	Low
DOUBLE A DETAILING	316	W	HAMPSHIRE			92805	7540	127408			Robert Almarez		Low
KIDZ MOBILE CAR WASH	130	W	HOOVER	AVE	6	92867	7540	124345	-117.85372896800	33.80733614310	Ramona Ramos	Lower Santa Ana River	Low
ACS PROFESSIONALS CAR DETAIL	13291		JASPERSON	WY		92683	7540	126296			Alberto Castrejon	Westminster	Low
ULTIMATE AUTO SOUND & ACCESSORIES	702	W	KATELLA	AVE		92867	7540	125385			Wenceslao A Barrera	Lower Santa Ana River	Low
CALIFORNIA CUSTOM CAR CARE	805	N	KATHLEEN	ST	A	92867	7540	126756	-117.82030689700	33.80043128450	Gary R Sargent Jr	Lower Santa Ana River	Low
S A MOTORSPORTS INC	633	W	KATELLA	AVE	H	92867	441310	153550			Paul R Shafer	Lower Santa Ana River	Low
RAFA'S CAR WASH	840	W	LA JOLLA	ST	1D	92870	7540	130636			Rafael Gutierrez-Jacobo	Placentia	Low
AUTO CARWASH	1464	E	LA PALMA	AVE	111	92805	7540	126166			Joseph L Fores	Lower Santa Ana River	Low
PERFORMANCE AUTO DETAILING	915	E	LA VETA	AVE		92866	7540	133859			Israel Huerta	Lower Santa Ana River	Low
ALLIANCE AUTO DETAILING	1092	N	LINCOLN	AVE		92867	7540	122407	-117.83834632700	33.80590761690	Ryan F Fontana	Lower Santa Ana River	Low
MUSSER'S AUTO SALON	49		MALAGA			92780	7540	127474			Randy Musser		Low
ARNIE & FRANKIES AUTO DETAILING	1931	E	MEATS	AVE	65	92865	811192	154190			Arnulfo Marcedo	Lower Santa Ana River	Low
MARIO MOBILE AUTO DETAIL	1913	W	MYRTLE			92703	7540	133799			Mario R Santana	Santa Ana	Low
LEON'S AUTO DETAILING	486	N	OAK	ST		92867	7540	133607			Vicente L Nieto	Lower Santa Ana River	Low
CARLOS AUTO DETAILING SERVICES	12075		OCOTILLO	DR		92337	811192	154506			Victor Becerril	Fontana	Low
PRIVATE CAR WASH SERVICES	14461		RED HILL		C	92780	7540	131670			Khodr Khaled	Tustin	Low
MOBILE CAR WASH	1146	W	RICHLAND	AVE		92703	7540	129913			Alberto Canchola		Low
KING DAVID'S MOBILE DETAIL	3824	E	ROBERTA	DR		92869	7540	124795	-117.81235687100	33.78317845990	David D Stiith	Lower Santa Ana River	Low
ANGELS CLEANUP PROV 28.6	3741		ROSE	DR		92886	7540	125822			Pedro M Yanez	Lower Santa Ana River	Low
CARTER'S AUTOHAUS LLC	1113	W	STRUCK	AVE		92867	7540	130763			Heath G Carter	Lower Santa Ana River	Low
RAMON AUTO DETAIL	4101	N	SUNSET	ST		92865	7540	126595			Ramon Robles	Lower Santa Ana River	Low
ELEGANT TOUCH AUTO DETAILING	254	S	THOMAS	ST		92869	7540	125805	-117.81316691800	33.78476804740	Sergio L Contreras Jr	Lower Santa Ana River	Low
TOP DOG DETAIL	590	N	THOMAS	ST		92869	7540	?				Lower Santa Ana River	Low
WATER WORK'S	11741		TIMMY	LN		92840	7540	133708			Jason Larios	Garden Grove	Low
PINEDAS AUTO DETAILING	1413	W	SANTA CLARA	RD	SA	92706	7540	125897			Aberto Pineda	Lower Santa Ana River	Low
ELITE AUTO SPA	500	N	STATE COLLEGE	BLVD		92868	7540	131256	-117.88959891900	33.79567122110	Zachary M Anderson	Lower Santa Ana River	Low
ULTIMATE MOBILE DETAILING BY CLIFF	4414	W	STAY	CT		92868	7540	127060			Clifford M Overton II	Lower Santa Ana River	Low
IMAGE AUTO DETAILING	1100	W	TOWN&COUNTRY	RD	B-2	92868	7540	79711	-117.86376653200	33.77593289130	Shawn T Bennett	Lower Santa Ana River	Low
CREATIVE WINDOW TINTING	1219	W	TRENTON	AVE		92867	7540	131272			Alejandro Gallardo	Lower Santa Ana River	Low
HOGWASH MD	446	S	TUSTIN	ST	44	92866	7540	121939	-117.83612370200	33.78105432060	Lee M Christensen	Lower Santa Ana River	Low
PACIFIC COAST AUTO SPA	1500	E	VILLAGE	WAY		92867	7540	130729/133088			David S & Joshua D Lotzenh	Lower Santa Ana River	Low
SECOND TO NONE MOBILE AUTO DETAILING	1443	E	WASHINGTON	BLVD	312	91104	7540	133256			Gabe O'Hara	Pasadena	Low
<b>7549 AUTOMOTIVE SERVICES,EXCEPT REPAIR/CAR WASH</b>													
DINH'S SMOG CHECK TEST ONLY	1135	W	BARKLEY	AVE	F	92868	7549	134551			Hoang V Dinh	Lower Santa Ana River	Low
MICHAEL-REESE ENTERPRISES INC	551	N	BATAVIA	ST	A	92868	7549	120877	-117.86166994300	33.79623746730	Darryl R Alison	Lower Santa Ana River	Low
CALIFORNIA COACH TOWING	572	N	BATAVIA	ST		92868	7549	116692	-117.86221186100	33.79630041100	Andrew C Lujan	Lower Santa Ana River	Low
SOUTHSIDE TOWING/STORAGE YARD	982	N	BATAVIA	ST	A-12	92867	488410	154182			David Padua	Lower Santa Ana River	Low
BATAVIA SMOG TEST ONLY CENTER	1223	N	BATAVIA	ST	D	92867	7549	133169			Kenny K Tu	Lower Santa Ana River	Low
ORANGE TOWING INC	832	N	LEMON	ST		92867	811198	125010			Jason G Desjardins	Lower Santa Ana River	Low
AMERICAN ALL STAR TOWING	575	N	BATAVIA	ST		92868	488410	130107			Norma Odeh	Lower Santa Ana River	Low
M G TOWING/CAMPOS SERVICE	146	S	MAIN	ST	L249	92868	488410	156570				Lower Santa Ana River	Low
TOWS-R-RUSS	621	N	MAIN	ST		92868	488410	154122			Chistopher E Caulder	Lower Santa Ana River	Low
AUTHENTIC BROTHERS TOWING INC	979	N	PARKER	ST		92867	7549	133530			Francisco R Vasquez	Lower Santa Ana River	Low
HADLEY TOW	1078	N	PARKER	ST		92867	7549	116027			Mark Hassan	Lower Santa Ana River	Low
ARCHIE'S TOWING	745	N	HARITON	ST		92868	7549	67096			Raffi & Troy & Shant Keu	Lower Santa Ana River	Low
A 1 SMOG TEST ONLY	1523	W	STRUCK	AVE	D	92867	7549	133250			Manoucher S Barati	Lower Santa Ana River	Low
BECKER TIRE	1100	N	TUSTIN	ST	B	92867	423130	134540			Jason Berry	Lower Santa Ana River	Low
<b>Repair Shops &amp; Related Services, nec</b>													
K & H MARINE	2387	N	BATAVIA	ST		92865	7699	56692	-117.86179457900	33.82777453690	Bob Grant	Lower Santa Ana River	Medium
<b>AUTOMOBILE AND OTHER VEHICLE BODY REPAIR OR PAINTING</b>													
<b>Top/Body &amp; Upholstery Repair/Paint Shops</b>													
NEW IMAGE PAINT & BODY	1230	W	ALVAREZ	AVE		92868	7532	104138			Shawn L Enarson	Lower Santa Ana River	High
ORANGE AUTO COLLISION	800	W	BARKLEY	AVE	W	92868	7532	129611			Alvaro Hernandez	Lower Santa Ana River	High
BIG D BODY & PAINT	938	W	BARKLEY	AVE	B	92868	811198	153493			Dagoberto Rodriguez	Lower Santa Ana River	Low
MAACO COLLISION REPAIR & AUTO PAINTING	670	N	BATAVIA	ST		92868	811121	155402	-117.86223032800	33.79858683790	MJD Ventures Inc	Lower Santa Ana River	High
1-DAY PAINT & BODY CENTERS INC	788	N	BATAVIA	ST		92868	7532	102176	-117.86168065600	33.80036103820	Javier R Uribe	Lower Santa Ana River	High
R C EMPIRE BODY SHOP	973	N	BATAVIA	ST	A & B	92867	7532	119567			Antonio Rosas	Lower Santa Ana River	Medium
CENTURY COLLISION CENTER	830	N	BATAVIA	ST		92868	7532	143368	-117.86220729600	33.80124076420	Oscar Herrera	Lower Santa Ana River	Medium
PRECISION COLLISION AUTO BODY CENTE	989	N	BATAVIA	ST		92867	7538	115673			Jason Barry	Lower Santa Ana River	High
ERNIE'S ONE STOP SHOP	890	N	BATAVIA	ST		92868	7540	115809			Ernesto Mora	Lower Santa Ana River	Low

City of Orange  
Commercial Inventory 20011-2012

M G CLASSIC RESTORATION	1210	N	BATAVIA	ST	G	92867	7532	134359			Gerardo Gonzalez	Lower Santa Ana River	Medium
RYDEZ AUTOMOTIVE	1210	N	BATAVIA	ST	H	92867	811420	154534			Diego Pulido	Lower Santa Ana River	Low
AUTO UPHOLSTERY OF ORANGE	504	W	CHAPMAN	AVE	N	92868	7532	65242	-117.85760058100	33.78760407450	bdolfo & Francisco Guzm	Lower Santa Ana River	Medium
A-1 UPHOLSTERY	504	W	CHAPMAN	AVE	D	92868	811420	154378	-117.85760058100	33.78760407450	Eliseo M Rodriguez	Lower Santa Ana River	Low
CLASSIC AUTO COLLISION & PAINT	1045	W	COLLINS	AVE		92867	7532	120676	-117.86365475000	33.80254076290	Jose A Gonzalez	Lower Santa Ana River	High
FIX AUTO ORANGE	153	N	CYPRESS	ST		92866	7532	8383	-117.85620834600	33.78884522600	Donald M Blake	Lower Santa Ana River	High
ORANGE AUTO UPHOLSTERY	1909	N	ENTERPRISE	ST		92867	7532	50630			Sergio Necoechea	Lower Santa Ana River	Medium
OLD CAR SPECIALIST	560	W	FREEDOM	AVE		92865	7532	133428			Roberto Sandoval	Lower Santa Ana River	Low
CORPORATE COLLISION INC	1812	N	GLASSELL	ST		92865	7532	133037			Earl Miller	Lower Santa Ana River	Low
PREFERRED AUTO BODY & PAINT CENTERS	1821	N	GLASSELL	ST		92865	7532	66497			Frank G Pillarella	Lower Santa Ana River	High
TROPICAL AUTO BODY INC	767	N	HARITON	ST		92868	7532	87884			Morris Lea Lawrence	Lower Santa Ana River	High
B A R T	1500	W	KATELLA	AVE		92867	7532	85900	-117.86881012000	33.80784117390	Allen C Walker	Lower Santa Ana River	Medium
TECHNOLOGY AUTO COLLISION	770	N	LEMON	ST		92867	7532	124726			Chris H Johnson	Lower Santa Ana River	Low
EAST AUTO PAINTING	986	N	LEMON	ST		92867	7532	13141	-117.85593806700	33.80408112530	Jimmy D East	Lower Santa Ana River	High
SUPER STEVE'S	947	N	PARKER	ST		92868	7532	97536	-117.859448	33.803363	Stephen J & C Neil	Lower Santa Ana River	Medium
ORANGE AUTO BODY	410	W	WALNUT	AVE		92867	7532	131348			Arturo Bernal	Lower Santa Ana River	Low
Automobile Services, Except Repair/Car Wash													
MOBILE AUTOMOBILE OR OTHER VEHICLE WASHING													
												SUB-TOTAL = 12	
Carwashes													
TOWN & COUNTRY HAND CAR WASH LLC	2747	E	CHAPMAN	AVE		92869	7542	110871			Randall A Griegorian	Lower Santa Ana River	Low
ORANGE HAND CAR WASH	4301	E	CHAPMAN	AVE		92869	7542	133731			Darryl Bestall	Lower Santa Ana River	Low
SADDLEBACK CAR WASH	510	W	CHAPMAN	AVE		92868	7542	123549			Jerome Greubel	Lower Santa Ana River	Low
BIG A AUTO WASH	1044	W	KATELLA	AVE		92867	7542	92374	-117.86299836000	33.80865012830	Adam Anteyan	Lower Santa Ana River	Low
LINCOLN CAR WASH/AUTO SPA	105	E	LINCOLN	AVE		92865	7542	119514	-117.85211400800	33.83581300570	Vagan Arutyunyan	Lower Santa Ana River	Low
STADIUM CAR WASH	1234	N	MAIN	ST		92867	7542	107571			David M Berri	Lower Santa Ana River	Low
BIG BOY CAR WASH	1835	W	ORANGEWOOD	AVE		92868	811192	121821	-117.87223386400	33.79571215990	Ana P Soto Martinez	Lower Santa Ana River	Low
CRYSTAL CLEAN CARWASH	140	N	PROSPECT	ST		92866	7542	94814	-117.81875386800	33.78850186820	James D Dickinson	Lower Santa Ana River	Low
TUSTIN CAR WASH	387	N	TUSTIN	ST		92867	7542	114036	-117.83550211600	33.79262511640	Korush Banain	Lower Santa Ana River	Low
Auto Cleaning & Detailing													
ORANGEHILL CAR WASH- SHELL CAR WASH	4035	E	CHAPMAN	AVE		92867	7542	61791	-117.80981728000	33.78793793930	Moutia Assaf		Low
SANTIAGO HILLS CHEVRON	8544	E	CHAPMAN	AVE		92869	7542	97505			Hooman Sharif		Low
ORANGE AUTO HAND WASH	1405	W	CHAPMAN	AVE		92868	7542	94284	-117.86667609500	33.78883868480	Rekha Bajarria		Low



City of Orange  
Commercial Inventory 20011-2012

ALL RESTAURANTS

AMERICAN WAY CULTURAL CENTER	2390	N	AMERICAN WAY	ST		92865	7389	72645	-117.85880325000	33.82780016660	Marty Adair	Lower Santa Ana River
DELI 333	333	S	ANITA	DR	C	92868	5812	133440	-117.88117158200	33.78394252130	Nancy Hancock	Lower Santa Ana River
RUBY'S DINER	186	N	ATCHISON	ST		92866	722110	153767				Lower Santa Ana River
THE BIG E	890	N	BATAVIA	ST		92868	447110	154532	-117.86218608300	33.80210618250	John Moorcroft	Lower Santa Ana River
TUMMY STUFFER OF ORANGE	1010	N	BATAVIA	ST	#K	92867	5812	94394			Hae R Lee	Lower Santa Ana River
LA SIESTA MEXICAN RESTAURANT	1010	N	BATAVIA	ST	A	92867	5812	47308	-117.86236488400	33.80433905500	Gregorio C Salgado	Lower Santa Ana River
CREATIVE CUISINE	1080	N	BATAVIA	ST	#D	92867	2099	44265	-117.86237511600	33.80570449460	Gayland Isley	Lower Santa Ana River
SALOON SWEETS & CUSTOM CATERING	1080	N	BATAVIA	ST	#D	92867	311811	155012			Nancy A Gilbert	Lower Santa Ana River
STARBUCK'S COFFEE #5511	101	E	CHAPMAN	AVE		92866	5812	90684			Starbucks Corp	Lower Santa Ana River
WATSON DRUG-LUNCH COUNTER	116	E	CHAPMAN	AVE		92866	5912	70219			Scott E Parker	Lower Santa Ana River
B P O ELKS 1475	211	E	CHAPMAN	AVE		92866	8699	42427	-117.85159699900	33.78801306800	Keith Fraser	Lower Santa Ana River
RENATA'S CAFE ITALIANO	227	E	CHAPMAN	AVE	#F	92866	5810	112526			Ghadir Ayaz	Lower Santa Ana River
SPIROS	513	E	CHAPMAN	AVE		92866	5812	114648			Nikolaos Rados	Lower Santa Ana River
TOGOS BASKIN ROBBINS	1610	E	CHAPMAN	AVE		92866	5812	105925			Mai X Phan	Lower Santa Ana River
LAMP POST PIZZA	1829	E	CHAPMAN	AVE		92867	5810	96489	-117.83477195600	33.78868173290	Michael R Flynn	Lower Santa Ana River
ALICIA'S MEXICAN FOOD & FRUTERIA	2520	E	CHAPMAN	AVE		92869	5810	133913			Martha A Santibanez	Lower Santa Ana River
LITTLE CAESARS	2552	E	CHAPMAN	AVE		92869	5499	126127	-117.82616998600	33.78694027800	Timothy C Gregart	Lower Santa Ana River
SAKURA	2610	E	CHAPMAN	AVE		92869	5812	119381			Sung Min Kim	Lower Santa Ana River
THE RIB TRADER	2710	E	CHAPMAN	AVE		92869	5810	71155			Mehdi Karkhanehchin	Lower Santa Ana River
CARROWS RESTAURANT	2810	E	CHAPMAN	AVE		92869	5812	134604	-117.82365932900	33.78746272720	Young Jin Yum	Lower Santa Ana River
JAPAN GRILL	2815	E	CHAPMAN	AVE		92869	5810	117376	-117.82296387900	33.78796930100	Young Jin Lee	Lower Santa Ana River
HOBBIT RESTAURANT	2932	E	CHAPMAN	AVE		92869	5810	71268	-117.82205053700	33.78749096610	Michael S Philippi	Lower Santa Ana River
JOHNNY REB'S	2940	E	CHAPMAN	AVE		92869	5810	98132	-117.82176663200	33.78749454020	Cheryl L Carter	Lower Santa Ana River
PIZZA HUT #510	3023	E	CHAPMAN	AVE		92869	5812	125005			Ramesh Patel	Lower Santa Ana River
DONUT SHOP OF ORANGE	3024	E	CHAPMAN	AVE		92869	5812	108603	-117.82071728800	33.78751576450	Leang Y Se	Lower Santa Ana River
KENNY'S DONUTS	3035	E	CHAPMAN	AVE	#A	92869	5812	128680	-117.82099677400	33.78794644030	Fuong Choa	Lower Santa Ana River
NEW YORK SUBS	3041	E	CHAPMAN	AVE		92869	5812	118186			Prany Ly	Lower Santa Ana River
JACK IN THE BOX #282	3111	E	CHAPMAN	AVE		92869	5812	99078	-117.82033919900	33.78793303460	James M Christensen	Lower Santa Ana River
TAN HOANG HUONG RESTAURANT	3132	E	CHAPMAN	AVE		92869	5812	115336			Trishe T Dang	Lower Santa Ana River
PAPA JOHN'S PIZZA	3138	E	CHAPMAN	AVE	B	92869	5812	116816			Fouad Tarazi	Lower Santa Ana River
DUKE'S CHARBROILER	3221	E	CHAPMAN	AVE		92869	5812	103368	-117.86767875700	33.78264424340	Spiros Gabriel	Lower Santa Ana River
THE ORIGINAL PANCAKE HOUSE	3322	E	CHAPMAN	AVE		92869	5812	121613			Toph Management LLC	Lower Santa Ana River
CHINATOWN EXPRESS #62	3426	E	CHAPMAN	AVE		92869	5812	124779	-117.81676802600	33.78702325150	Bing Du	Lower Santa Ana River
PACIFIC COAST HOT DOG	3438	E	CHAPMAN	AVE		92869	5812	81005			Scott Browning	Lower Santa Ana River
SASOON CHICKEN	3440	E	CHAPMAN	AVE		92869	5812	92876			Dikran Avedikian	Lower Santa Ana River
IN-N-OUT BURGER #59	3501	E	CHAPMAN	AVE		92869	5812	62015	-117.81644795500	33.78802395430	Mark Taylor	Lower Santa Ana River
SUSHI 21	3505	E	CHAPMAN	AVE	#E	92869	5812	110364			Deok J Lee	Lower Santa Ana River
CARL'S JR #52	3510	E	CHAPMAN	AVE		92869	5812	26306	-117.81600474500	33.78747435030	Andrew Puzder	Lower Santa Ana River
GOLDEN SPOON FROZEN YOGURT	3533	E	CHAPMAN	AVE	#A	92869	5812	111065	-117.81560331200	33.78837505900	Daniel E Finch	Lower Santa Ana River
QUIZNOS	3533	E	CHAPMAN	AVE	#B	92869	5812	129469	-117.81560331200	33.78837505900	Claudia Rashidi	Lower Santa Ana River
THE FLAME BROILER	3533	E	CHAPMAN	AVE	#J	92869	5812	111565	-117.81560331200	33.78837505900	Roy M Lee	Lower Santa Ana River
ORANGE LOLLICUP COFFEE	3533	E	CHAPMAN	AVE	#K	92869	5812	132859	-117.81560331200	33.78837505900	Hanh N Nguyen	Lower Santa Ana River
TACO MESA	3533	E	CHAPMAN	AVE	#F	92869	5810	88366	-117.81560331200	33.78837505900	Ivan R Calderon	Lower Santa Ana River
BAGEL ME	3533	E	CHAPMAN	AVE		92869	5812	120589	-117.81560331200	33.78837505900	Gary McArthur	Lower Santa Ana River
OPUS RESTAURANT	3538	E	CHAPMAN	AVE		92869	5810	124645			Kathryn L Gregant	Lower Santa Ana River
ALE ROMA CUCINA	3544	E	CHAPMAN	AVE		92869	5810	126746	-117.81526054200	33.78708906410	Rodrigo Olmedo	Lower Santa Ana River
SUBWAY	3548	E	CHAPMAN	AVE		92869	5812	119026			OM Gupta	Lower Santa Ana River
MAKI YAKI	3616	E	CHAPMAN	AVE		92869	5812	115260	-117.81513842200	33.78687186400	David Lee	Lower Santa Ana River
STARBUCKS COFFEE	3630	E	CHAPMAN	AVE		92869	5812	101917			Orin Smith	Lower Santa Ana River
VIVA MEXICO RESTAURANT	3702	E	CHAPMAN	AVE	A	92869	5812	92325			Daniel & S Vargas	Lower Santa Ana River
DEL TACO #87	3730	E	CHAPMAN	AVE		92869	5812	121431	-117.81308576600	33.78747128410	Shirlene Lopez	Lower Santa Ana River
D K'S DONUTS	3744	E	CHAPMAN	AVE		92869	5812	56661	-117.81286519800	33.78741661590	Vaun Sahak	Lower Santa Ana River
ORANGE BLOSSOM RESTAURANT	3804	E	CHAPMAN	AVE	#B	92869	5810	88860			Kathy Lee	Lower Santa Ana River
DONA MECHE	3848	E	CHAPMAN	AVE	#A	92869	5812	112613	-117.81225599900	33.78723416510	Liborio Salazar	Lower Santa Ana River
DOMINO'S PIZZA #7835	3902	E	CHAPMAN	AVE		92869	5812	133686	-117.81204853400	33.78747235070	Dennis W Ryan	Lower Santa Ana River
CHERRY ON TOP	3910	E	CHAPMAN	AVE		92869	5812	122062	-117.81171063900	33.78746474300	David Kim	Lower Santa Ana River
MCDONALD'S	4200	E	CHAPMAN	AVE		92869	5812	34854	-117.80858397700	33.78744746800	Don & E & S Dunklemon	Lower Santa Ana River
MORENO'S	4328	E	CHAPMAN	AVE		92869	5810	8762	-117.80712370400	33.78741167160	Harvey B Moreno	Lower Santa Ana River
WIENERSCHNITZEL	4341	E	CHAPMAN	AVE		92869	5812	131785			Abbas Moallem	Lower Santa Ana River
GEORGE'S PLACE	4420	E	CHAPMAN	AVE		92867	5812	134297			Mailoan Lam	Lower Santa Ana River
OSTIONERIA BAHIA	4429	E	CHAPMAN	AVE		92869	5810	68675			Caldeeron & Ceja	Lower Santa Ana River
FRIENDLY DONUT	4442	E	CHAPMAN	AVE		92869	5812	75215	-117.80594757600	33.78743326080	Huong N Ung	Lower Santa Ana River
MARISQUERIA & TAQERIA MEXICO	4509	E	CHAPMAN	AVE		92869	5812	143744	-117.80549425900	33.78836690730	Lucita Ramirez	Lower Santa Ana River
EL PORTAL DE VERA CRUZ	4530	E	CHAPMAN	AVE		92869	5812	119216	-117.80497265600	33.78708286360	Daniel & S Vargas	Lower Santa Ana River



City of Orange  
Commercial Inventory 20011-2012

VALENTINO'S PIZZA	4911	E	CHAPMAN	AVE		92869	5812	86908			Miguel C Martinez	Lower Santa Ana River	
ORANGE HILL RESTAURANT	6410	E	CHAPMAN	AVE		92869	5810	20142			John Tallichet	Lower Santa Ana River	
CYRANO'S CAFFE	7446	E	CHAPMAN	AVE	A	92869	722211	154060	-117.77301802700	33.79536271470	Steven Nichols	Lower Santa Ana River	
DA BIANCA TRATTORIA	7448	E	CHAPMAN	AVE		92869	5812	90377	-117.77317083600	33.79539613780	Artie Bavand	Lower Santa Ana River	
LOONEY'S DONUTS	7520	E	CHAPMAN	AVE	#C	92869	5812	107895	-117.77278449500	33.79521463180	Ngon S Tea	Lower Santa Ana River	
CHRONIC TACOS	7520	E	CHAPMAN	AVE	A	92869	722211	154876	-117.77278449500	33.79521463180	Michael Gleich	Lower Santa Ana River	
GINZAYA JAPANESE RESTAURANT	7522	E	CHAPMAN	AVE		92869	5810	118119	-117.77278449500	33.79521463180	Kwang Sook Lee	Lower Santa Ana River	
WISE GUYS PIZZERIA	7606	E	CHAPMAN	AVE		92869	5810	124461			Michael T Ernst	Lower Santa Ana River	
FISH HOUSE MARKET & GRILL	7626	E	CHAPMAN	AVE	B	92869	5810	118891	-117.77234594400	33.79433522390	Tim P McNamara	Lower Santa Ana River	
JOHN'S PLACE	8400	E	CHAPMAN	AVE		92869	5812	94489	-117.76364583100	33.79255833660	John I Castanis	Lower Santa Ana River	
ZITO'S PIZZA	8416	E	CHAPMAN	AVE		92869	5810	102230			Steve M Silverstein	Lower Santa Ana River	
CHENS PANADA	8422	E	CHAPMAN	AVE		92869	5810	112152	-117.76381407500	33.79211670270	Chin F Chu	Lower Santa Ana River	
CJ CAPPUCCINO	8512	E	CHAPMAN	AVE		92869	5812	131172	-117.76289401800	33.79125854430	Hyun Yong Kim	Lower Santa Ana River	
TACO BELL #16105	8548	E	CHAPMAN	AVE		92869	5812	125816			Steven A Smith	Lower Santa Ana River	
BYBLOS	129	W	CHAPMAN	AVE		92866	5810	84507	-117.85386904900	33.78796208750	Adel Mahshi	Lower Santa Ana River	
OMEGA DRIVE-IN	309	W	CHAPMAN	AVE		92866	5812	76786			Alex Giannetakis	Lower Santa Ana River	
PIZZA HUT #521	396	W	CHAPMAN	AVE	C	92866	5812	125004			Ramesh Patel	Lower Santa Ana River	
SIETE MARES RESTAURANT	540	W	CHAPMAN	AVE		92868	5810	77191			Nicanor Arteaga	Lower Santa Ana River	
LA POBLANA PANADERIA	604	W	CHAPMAN	AVE		92868	5461	86524	-117.85873068100	33.78762274360	Urbano & C Murguia	Lower Santa Ana River	
DONUT STAR	915	W	CHAPMAN	AVE		92868	5812	129443	-117.86220542300	33.78801744140	Sene Thach	Lower Santa Ana River	
MI CASA AUTHENTIC MEXICAN FOOD RESTAURANT	1231	W	CHAPMAN	AVE		92868	722110	154156			Erick Mendoza	Lower Santa Ana River	
AQUA CAFE BY WG	1409	W	CHAPMAN	AVE	C	92868	2024	125223	-117.86758816000	33.78800796990	Peter Collino	Lower Santa Ana River	
FUJI GRILL -ORANGE WEST	1515	W	CHAPMAN	AVE		92868	5812	125558	-117.86867990600	33.78799616460	Sujong Son	Lower Santa Ana River	
EL POLLO LOCO #5842	1519	W	CHAPMAN	AVE		92868	5812	63329	-117.86901605200	33.78798037020	Steve Carley	Lower Santa Ana River	
CHA THAI RESTAURANT	1520	W	CHAPMAN	AVE		92868	5812	98880	-117.86881301400	33.78759850190	Nittaya Smarnpibulopol	Lower Santa Ana River	
EXTREMES SPORTSBAR	1535	W	CHAPMAN	AVE		92868	5810	112158	-117.86966171600	33.78801392380	Rebecca Bryant	Lower Santa Ana River	
DOMINO'S PIZZA #7744	1621	W	CHAPMAN	AVE		92868	5812	127399	-117.86990524300	33.78838556030	Parviz Motazadi	Lower Santa Ana River	
ADOBO & TACOS	1639	W	CHAPMAN	AVE		92868	5812	130483			Juan & R Tiscareno	Lower Santa Ana River	
PINOY FIESTA INC	1707	W	CHAPMAN	AVE		92868	722110	143331			Celso A Gutierrez Jr	Lower Santa Ana River	
D' NU EGGROLLS	1710	W	CHAPMAN	AVE		92868	5812	127743	-117.87080334600	33.78750225300	Nida Q Madamba	Lower Santa Ana River	
STRAW HAT PIZZA	1716	W	CHAPMAN	AVE		92868	5810	128533			Dana L Wolsten	Lower Santa Ana River	
TACOS TIJUANA	1718	W	CHAPMAN	AVE		92868	5812	127654			Miguel & E Villagomez	Lower Santa Ana River	
LUTONG PINOY	1738	W	CHAPMAN	AVE		92868	5812	126412	-117.87156514300	33.78733774650	Raymund Serafico	Lower Santa Ana River	
EL MOCTEZUMA # 3	1740	W	CHAPMAN	AVE		92868	5810	118364	-117.87168967700	33.78733745960	Herminia Reyes	Lower Santa Ana River	
DONUT STAR	1750	W	CHAPMAN	AVE		92868	5812	129920	-117.87182020200	33.78761756660	Hudson Hean	Lower Santa Ana River	
MCDONALD'S	1839	W	CHAPMAN	AVE		92868	5812	72228	-117.87286405100	33.78802272530	James H Frisbie & Co	Lower Santa Ana River	
DEL TACO #401	2043	W	CHAPMAN	AVE		92868	5812	121122	-117.87470717200	33.78802581350	Shirlene Lopez	Lower Santa Ana River	
PASTA CONNECTION 2	2145	W	CHAPMAN	AVE		92868	5810	133712			Jose A Cianciarusa	Lower Santa Ana River	
WIENERSCHNITZEL #306	2205	W	CHAPMAN	AVE		92868	5812	70447			Soon T & Kee K Kim	Lower Santa Ana River	
JAX DONUTS #19	2305	W	CHAPMAN	AVE		92868	5812	58266	-117.87722538100	33.78802119620	Phally (Alicia) Oum	Lower Santa Ana River	
SUBWAY #1913	2309	W	CHAPMAN	AVE		92868	5812	106782			Pang K Wang	Lower Santa Ana River	
THE FLAME BROILER, THE RICE	2316	W	CHAPMAN	AVE		92868	5812	108241			Brett Baucham	Lower Santa Ana River	
DRAGON CHINESE FAST FOOD	2320	W	CHAPMAN	AVE		92868	5812	120101	-117.87742531700	33.78735078630	Laixing Liu	Lower Santa Ana River	
BURGER KING #1806	2620	W	CHAPMAN	AVE		92868	5812	68362	-117.88061454800	33.78755915360	Robert Hakimianpour	Lower Santa Ana River	
DENNY'S #154	3000	W	CHAPMAN	AVE		92868	5810	125426	-117.88401326800	33.78756094040	Medhat Bechay	Lower Santa Ana River	
JACK IN THE BOX	3050	W	CHAPMAN	AVE		92868	722211	156676			Mark B Graffius	Lower Santa Ana River	
3 PALMS CAFE	3737	W	CHAPMAN	AVE		92868	5812	109151	-117.89142162500	33.78941601030	Dumitru G & D Sabau	GG-WINTERSBURG	
WENDYS INTERNATIONAL	3739	W	CHAPMAN	AVE		92868	5812	114314			Wendy's Int'l Inc	GG-WINTERSBURG	
STARBUCKS COFFEE #9550	3743	W	CHAPMAN	AVE	#A	92868	5812	114487			Orin Smith	GG-WINTERSBURG	
QUINZOS	3743	W	CHAPMAN	AVE	#B	92868	5812	119089			Priti R Sanghvi	GG-WINTERSBURG	
HONG KONG EXPRESS	4031	W	CHAPMAN	AVE		92868	5812	153534	-117.89679863000	33.78912167830	Kai Liang	GG-WINTERSBURG	
TACO BELL #2482	4035	W	CHAPMAN	AVE		92868	5812	67396			Steve Smith	GG-WINTERSBURG	
HOF'S HUT	4050	W	CHAPMAN	AVE		92868	5810	8117	-117.89712999600	33.78863472090	Craig Hofman	GG-WINTERSBURG	
CITY SUBWAY INC	4105	W	CHAPMAN	AVE		92868	5812	134025	-117.89788715500	33.78909573050	Esmail Talayeh	GG-WINTERSBURG	
THAI CHILI	4715	W	CHAPMAN	AVE		92868	5810	124599			Phoom Sagetong	GG-WINTERSBURG	
DOUBLETREE HOTEL RESTAURANT	100	S	THE CITY	DR		92868	5810	121831	-117.89179604700	33.78858471760	Thomas P Duncan	GG-WINTERSBURG	
BELLAS KITCHEN	301	S	THE CITY	DR		92868	5812	112462	-117.88830333000	33.78555308610	Joseph M D'Angelo	GG-WINTERSBURG	
CARL'S JR. #004	450	S	THE CITY	DR		92868	5812	100999	-117.88931873300	33.78156327120	Andrew Puzder	GG-WINTERSBURG	
BEST WESTERN MERIDIAN INN & SUITES	720	S	THE CITY	DR		92868	7011	126904	-117.89087301200	33.77607811630	Shirley Pasek	GG-WINTERSBURG	
CAFE 765CD	765	S	THE CITY	DR	#130	92868	5812	115453	-117.88972532200	33.77560192630	Deok Geun Kwon	GG-WINTERSBURG	
CREST DONUTS	840	S	THE CITY	DR	#C	92868	5812	71599	-117.89091675800	33.77473221990	Chan Y Cho	GG-WINTERSBURG	
YOGIS TERIYAKE & SUSHI	840	S	THE CITY	DR	G	92868	5812	120570	-117.89091675800	33.77473221990	Young Soon Kang	GG-WINTERSBURG	
PEPITO'S RESTAURANT	840	S	THE CITY	DR	H	92868	5810	122665	-117.89091675800	33.77473221990	Jose T Espinoza	GG-WINTERSBURG	
CHOCO-LATTE	840	S	THE CITY	DR	J	92868	5812	115321	-117.89091675800	33.77473221990	Jee M Lim	GG-WINTERSBURG	
BLIMPIE SUB & SALADS	840	S	THE CITY	DR	#1	92868	5812	123557	-117.89091675800	33.77473221990	Susan Gunawan	GG-WINTERSBURG	
CAFÉ VIVO	1	W	CITY	BLVD	1120	92868	2095	126302			Travis R Harritt	GG-WINTERSBURG	

City of Orange  
Commercial Inventory 20011-2012

TUTTI FRUTTI	20	W	CITY	BLVD	KF2	92868	2024	134190	-117.89201072600	33.78317933680	Chuck R Martin	GG-WINTERSBURG
GIGGIDY GOO SNOWCONES	20	W	CITY	BLVD		92868	2024	134211	-117.89201072600	33.78317933680	Nadia T Bloch	GG-WINTERSBURG
HAAGEN-DAZS	20	W	CITY	BLVD	#109	92868	5812	153504	-117.89201072600	33.78317933680	Christy Y Vu	GG-WINTERSBURG
RICHE'S-NEIGHBORHOOD PIZZERIA	20	W	CITY	BLVD	F10	92868	5810	94326	-117.89201072600	33.78317933680	Bradley Ross	GG-WINTERSBURG
STARBUCK'S COFFEE #5540	20	W	CITY	BLVD	416K	92868	5812	94091	-117.89201072600	33.78317933680	Howard Schultz	GG-WINTERSBURG
BORDERS BOOKS AND MUSIC #266	20	W	CITY	BLVD	A1	92868	5942	94462	-117.89201072600	33.78317933680	Ed Jackson	GG-WINTERSBURG
GREAT WRAPS	20	W	CITY	BLVD	#F7	92868	5812	117329	-117.89201072600	33.78317933680	Sanh X Huynh	GG-WINTERSBURG
ALCATRAZ BREWING COMPANY	20	W	CITY	BLVD	R1	92868	5810	111028	-117.89201072600	33.78317933680	Barry L Goff	GG-WINTERSBURG
ROCKY MOUNTAIN CHOCOLATE	20	W	CITY	BLVD	215	92868	2064	91831	-117.89201072600	33.78317933680	William E Glaser	GG-WINTERSBURG
DAVE & BUSTERS	20	W	CITY	BLVD	G1	92868	5810	93485	-117.89201072600	33.78317933680	Stephen M King	GG-WINTERSBURG
LASCARI'S ITALIAN CUCINA	20	W	CITY	BLVD	F1	92868	722110	153963	-117.89201072600	33.78317933680	John Lascari	GG-WINTERSBURG
SUBWAY	20	W	CITY	BLVD	F9	92868	5812	127544	-117.89201072600	33.78317933680	Alireza Jalalipour	GG-WINTERSBURG
ORIGINAL ORGANIC KETTLE KORN CO	20	W	CITY	BLVD		92868	5812	121878	-117.89201072600	33.78317933680	Thomas E Sleigh	GG-WINTERSBURG
KOJI'S SUSHI SAHBU/SHABU	20	W	CITY	BLVD	508	92868	5810	101745	-117.89201072600	33.78317933680	Arthur J Parent Jr	GG-WINTERSBURG
REPICCIE'S OF THE WEST	20	W	CITY	BLVD		92868	5812	123184	-117.89201072600	33.78317933680	Federico P & O Garcia	GG-WINTERSBURG
EUROSTATION FOODS INC	20	W	CITY	BLVD	903	92868	5812	132365	-117.89201072600	33.78317933680	Anna S Johnson	GG-WINTERSBURG
I W S SELECT INC	20	W	CITY	BLVD	701	92868	2024	125224	-117.89201072600	33.78317933680	Marita Fortades	GG-WINTERSBURG
MIER'S ICE CREAM	20	W	CITY	BLVD		92868	2024	125824	-117.89201072600	33.78317933680	Jose Carlos Mier	GG-WINTERSBURG
CHURROLICIOUS	20	W	CITY	BLVD		92868	5812	120857	-117.89201072600	33.78317933680	Cristina White	GG-WINTERSBURG
KARLS SHAKES	20	W	CITY	BLVD	# F2	92868	722213	155479	-117.89201072600	33.78317933680	Walter Dragosz	GG-WINTERSBURG
RUBY THAI KITCHEN	20	W	CITY	BLVD	#FC03	92868	722211	154275	-117.89201072600	33.78317933680		GG-WINTERSBURG
LUCKY STRIKE	20	W	CITY	BLVD	#G2	92868	5810	125290	-117.89201072600	33.78317933680	Steven Foster	GG-WINTERSBURG
CAFE TUTU TANGO	20	W	CITY	BLVD	R10	92868	5810	126187	-117.89201072600	33.78317933680	James P Hall	GG-WINTERSBURG
JAMBA JUICE	20	W	CITY	BLVD	# F5	92868	5812	93994	-117.89201072600	33.78317933680	Karen Luey	GG-WINTERSBURG
LA ITALIAN KITCHEN	20	W	CITY	BLVD	F10	92868	5812	130881	-117.89201072600	33.78317933680	Joseph Desantos	GG-WINTERSBURG
CORNER BAKERY	20	W	CITY	BLVD	R4	92868	5812	117447	-117.89201072600	33.78317933680	Jim Vinz	GG-WINTERSBURG
RUBIO'S RESTAURANT, INC.	20	W	CITY	BLVD	F8	92868	5812	92824	-117.89201072600	33.78317933680	Ralph Rubio	GG-WINTERSBURG
ORANGE MARKET BROILER	20	W	CITY	BLVD	R6	92868	5810	93918	-117.89201072600	33.78317933680	Rodney K Couch	GG-WINTERSBURG
CHARLEY'S STEAKERY	20	W	CITY	BLVD	F4	92868	5812	104446	-117.89201072600	33.78317933680	Jason J Lee	GG-WINTERSBURG
JOHNNY ROCKETS	20	W	CITY	BLVD	916	92868	5812	94330	-117.89201072600	33.78317933680	Johnny Rockets Group Inc	GG-WINTERSBURG
AMC THE BLOCK 30 THEATERS	20	W	CITY	BLVD	E	92868	5812	94057	-117.89201072600	33.78317933680	Peter C Brown	GG-WINTERSBURG
WETZEL'S PRETZEL'S	20	W	CITY	BLVD	705	92868	5812	110903	-117.89201072600	33.78317933680	Young Kim	GG-WINTERSBURG
KRISPY KREME DOUGHNUTS	330	S	THE CITY	DR		92868	5812	97634	-117.89036548900	33.78369794250	Richard G Reinis	GG-WINTERSBURG
THE CITY CAFE	333	W	CITY	BLVD	#B1	92868	5812	57849			Jennifer Chin C & CH Hwar	GG-WINTERSBURG
EL TORITO RESTAURANTS, INC.	3520	W	THE CITY	WAY		92868	5810	60515	-117.89122584200	33.78532966030	Steven Tanner	GG-WINTERSBURG
SCOTTIE'S SMOKEHOUSE	129	E	COLLINS	AVE		92867	5812	127650			Darren W Scott	Lower Santa Ana River
PANCHO'S GRANADA	135	E	COLLINS	AVE		92867	5810	36711			Charles & Peggy Dadgwe	Lower Santa Ana River
D & H DONUTS	1510	E	COLLINS	AVE		92867	5812	77951	-117.83744714900	33.80200844430	Miguel P Giuntoli	Lower Santa Ana River
DON'S SAUCES	987	N	ENTERPRISE	ST		92867	311941	155879			Don Khuu	Lower Santa Ana River
T G I FRIDAYS	3339	W	ENTERTAINMENT	AVE		92868	5810	127558			Bradford L Honigfeld	GG-WINTERSBURG
GRAND CATERED EVENTS/DANCE	300	S	FLOWER	ST		92868	713990	154297			Fareed Haddad	Lower Santa Ana River
UMAI TERIYAKI GRILL	4045	W	GARDEN GROVE	BLVD	C	92868	5812	134052	-117.89711163400	33.77487806890	Walid Barash	GG-WINTERSBURG
FRANCOLI GOURMET EMPORIO	100	S	GLASSELL	ST	108	92866	5810	132546			Alberto Tilicone	Lower Santa Ana River
CHERRY ON TOP ORANGE PLAZA	117	N	GLASSELL	ST		92866	5812	130090			Lorianne	Lower Santa Ana River
CITRUS CITY GRILLE	122	N	GLASSELL	ST		92866	5810	98933	-117.85346621300	33.78864189740	Steve Tsirtsis	Lower Santa Ana River
THE BEACH PIT ORANGE	128	N	GLASSELL	ST		92866	5810	132245			Tim D De Cinces	Lower Santa Ana River
ORANGE CANDY CO INC	144	N	GLASSELL	ST		92866	5441	133733			Marybeth Wright	Lower Santa Ana River
HENRY'S GRILL	149	N	GLASSELL	ST		92866	722110	142465			Sammy Medali	Lower Santa Ana River
COURTYARD DELI	152	N	GLASSELL	ST	A	92866	5812	120006	-117.85337441700	33.78914154280	Mikyoung Lee Kim	Lower Santa Ana River
ROCKY MOUNTAIN CHOCOLATE	152	N	GLASSELL	ST	#D	92866	5441	102998			Robert L Brakeville	Lower Santa Ana River
JALAPENOS MEXICAN FOOD	154	N	GLASSELL	AVE		92866	5810	105552	-117.85338116600	33.78921491410	Gladys Cisneros	Lower Santa Ana River
ZITO'S PIZZA	156	N	GLASSELL	ST		92866	5810	102225			Steve M Silverstein	Lower Santa Ana River
SHORT & SWEET CUPCAKERY	165	N	GLASSELL	ST		92866	2050	125973			Alyssa J Magliato	Lower Santa Ana River
OLD TOWN GRINDER & ICE CREAM PARLOR	177	N	GLASSELL	ST		92866	2024	124444			William J King	Lower Santa Ana River
THE FILLING STATION	201	N	GLASSELL	ST		92866	5812	143758			Wisanu Sutnanurak	Lower Santa Ana River
THE UGLY MUG CAFFE	261	N	GLASSELL	ST		92866	9998	80632			Phillip F Doyon	Lower Santa Ana River
RUTABEGORZ	264	N	GLASSELL	ST		92866	5810	103183			Paul L Berkman	Lower Santa Ana River
BRUXIE	292	N	GLASSELL	ST		92866	722110	153873	-117.85357025800	33.79132114940	Dean Simon	Lower Santa Ana River
CHAPMAN COFFEE HOUSE	505	N	GLASSELL	ST		92867	5812	132836			Deborah J Yamazaki	Lower Santa Ana River
GOLDEN FIRE	878	N	GLASSELL	ST		92867	5812	28207	-117.85342847700	33.80208592080	Arty John Grammas	Lower Santa Ana River
DONUT PLUS	918	N	GLASSELL	ST		92867	5812	119518	-117.85344711100	33.80265349460	Steve Ty Yin	Lower Santa Ana River
HONG KONG BBQ	918	N	GLASSELL	ST	B	92867	5812	121453	-117.85344711100	33.80265349460	Sinh A Tu	Lower Santa Ana River
TACOS GARCIA INC	918	N	GLASSELL	ST	#D	92867	5812	127868			Ancelmo Garcia	Lower Santa Ana River
TUTTO FRESCO TRATTORIA	1333	N	GLASSELL	ST		92867	5810	128289			Stephen P White	Lower Santa Ana River
GLASSELL ST ROADSIDE CAFE	1822	N	GLASSELL	ST		92865	722110	154179	-117.85359273000	33.81803671240	Glenn Gorman	Lower Santa Ana River
SUNSET CAFE	2401	N	GLASSELL	ST		92865	5812	106702			George Delatorre	Lower Santa Ana River

City of Orange  
Commercial Inventory 20011-2012

A-1 DELI	2408	N	GLASSELL	ST		92865	5812	111222	-117.85336243100	33.82815355180	Elias Kawaja	Lower Santa Ana River
DONUT STAR	3201	N	GLASSELL	ST		92865	5499	99420	-117.85202609600	33.84235323950	Sochetra Duch	Lower Santa Ana River
KOKOLO 153	3203	N	GLASSELL	ST		92865	722110	154379			Sangyun Shin	Lower Santa Ana River
THE TACO TIME	3209	N	GLASSELL	ST		92865	5812	125354			Araceli Uribe	Lower Santa Ana River
NAPLES PIZZA & PASTA	3211	N	GLASSELL	ST		92865	5812	102583	-117.85182274000	33.84248335000	Mohammad A Sidiq	Lower Santa Ana River
FRANCOLI GOURMET EMPORIO	100	S	GLASSELL	ST		92866	5810	132546			Alberto Tilicone	Santiago Creek
PARIS IN A CUP	119	S	GLASSELL	ST		92866	5812	123960			Cheryl Turner	Lower Santa Ana River
BLUE FROG	136	S	GLASSELL	ST		92866	5810	115364	-117.85344701300	33.78667282110	Jade M Davis	Lower Santa Ana River
GABBI'S MEXICAN KITCHEN	141	S	GLASSELL	ST		92866	5810	119176	-117.85290398300	33.78667675720	Gabriela Patrick	Lower Santa Ana River
HAVEN GASTROPUB	190	S	GLASSELL	ST	C	92866	5810	131282			Jeffrey D Hall	Lower Santa Ana River
KIMMIES COFFEE CUP INC	190	S	GLASSELL	ST	B	92866	5812	131729			Kimberly A Vinson	Lower Santa Ana River
YEN-CHING	574	S	GLASSELL	ST		92866	5810	26857			Ben Jong Tzou	Lower Santa Ana River
CARNITAS CAROLINA	150	S	HEWES	ST	#101	92869	5812	106953	-117.80619897300	33.78676781770	Carolina Huerta	Lower Santa Ana River
MCDONALDS RESTAURANT	105	E	KATELLA	AVE		92867	5812	97158	-117.85255395200	33.80928115870	Donald Dunkleman	Lower Santa Ana River
BILLY BOY CAFÉ	114	E	KATELLA	AVE		92867	5812	126450	-117.85263672400	33.80873153760	Konstantinos K Kotsiovos	Lower Santa Ana River
ORANGE PALACE	220	E	KATELLA	AVE		92867	5810	125942			Guribqal Singh Jhaj	Lower Santa Ana River
A+ ORGANIC EXPRESS	220	E	KATELLA	AVE		92867	5810	131763			Michelle Kim	Lower Santa Ana River
HONG KONG EXPRESS	225	E	KATELLA	AVE		92867	5812	101279	-117.85186660500	33.81002296400	Chen Ruishi	Lower Santa Ana River
MARIE CALLENDER #76	307	E	KATELLA	AVE		92867	5810	24013	-117.85057979400	33.80928876720	Phillip Ratner	Lower Santa Ana River
STARS CAFÉ & DELI	313	E	KATELLA	AVE		92867	5812	133363			Mark Woodward	Lower Santa Ana River
CARPI'S CAFÉ	320	E	KATELLA	AVE	A	92867	5810	45178	-117.85042970500	33.80857134330	Drummond & Edwards	Lower Santa Ana River
MARISCOS MOCORITO	320	E	KATELLA	AVE	H	92867	5812	133919	-117.85042970500	33.80857134330	Orvelin Parra	Lower Santa Ana River
THE VILLA	510	E	KATELLA	AVE		92867	5810	36619			Tim Zimprich	Lower Santa Ana River
SAFFRON RESTAURANT	720	E	KATELLA	AVE		92867	5810	113132			Farah Saadat	Lower Santa Ana River
THAI SWAN RESTAURANT	724	E	KATELLA	AVE		92867	5810	112807			Aree Shepard	Lower Santa Ana River
KOISAN RESTAURANT	1132	E	KATELLA	AVE		92867	5810	34432	-117.84189271300	33.80857238020	Osamu S Eryu	Lower Santa Ana River
TANDOOR CUISINE OF INDIA	1132	E	KATELLA	AVE		92867	5810	116228			Balbir Singh	Lower Santa Ana River
RICARDO'S MEXICAN CAFE	1230	E	KATELLA	AVE		92867	5810	8849			Patricia R Fraser	Lower Santa Ana River
YOGURT DELIGHT	1307	E	KATELLA	AVE		92867	5812	38426			Kathy B S Lee	Lower Santa Ana River
MASCARPONES	1446	E	KATELLA	AVE		92867	5810	60005	-117.83865827600	33.80884430960	Jose M Santamarina	Lower Santa Ana River
CARL'S JR #481	1522	E	KATELLA	AVE		92867	5812	49942	-117.83731693000	33.80875937910	William P Foley	Lower Santa Ana River
HENRY'S DONUTS	1525	E	KATELLA	AVE		92867	5812	129710	-117.83748525900	33.81009046910	Tani H Eng	Lower Santa Ana River
JERSEY MIKE'S SUBS	1545	E	KATELLA	AVE		92867	722211	154112			Ed Castaneda	Lower Santa Ana River
FIVE GUYS BURGERS AND FRIES	1549	E	KATELLA	AVE		92867	5810	143294			Phillip Ratner	Lower Santa Ana River
NORM'S RESTAURANT	1550	E	KATELLA	AVE		92867	5810	22227			Philip Singerman	Lower Santa Ana River
EL POLLO LOCO #5677	1611	E	KATELLA	AVE		92867	5812	111319	-117.83644939800	33.80936304820	Steve Carley	Lower Santa Ana River
ROUND TABLE PIZZA	1737	E	KATELLA	AVE		92867	5810	123941			Qumars Bamshadford	Lower Santa Ana River
RESTAURANT SHIKI	1936	E	KATELLA	AVE		92867	5810	114532			Gerard Edery	Lower Santa Ana River
TAQUERIA MEXICO	108	W	KATELLA	AVE	#C	92867	5810	96587			Enrique Rodriguez	Lower Santa Ana River
SUBWAY #36378	108	W	KATELLA	AVE	B	92867	5810	120411			Om B Gupta	Lower Santa Ana River
BETWEEN SLICES	211	W	KATELLA	AVE	A	92867	5812	132166	-117.85437713300	33.80926017590	Eun Mi Lee-Jung	Lower Santa Ana River
LITTLE CAESARS	211	W	KATELLA	AVE	N	92867	5812	129703	-117.85437713300	33.80926017590	Michael Iltich	Lower Santa Ana River
JACK IN THE BOX #3305	431	W	KATELLA	AVE		92867	5812	130889	-117.85636013000	33.80925933120	Mark O Graffius	Lower Santa Ana River
CALIFORNIA TERIYAKI GRILL	526	W	KATELLA	AVE		92867	5812	129795			Ho Taek Song	Lower Santa Ana River
KATELLA GRILL	1325	W	KATELLA	AVE		92867	5810	73180	-117.86649715600	33.80920122790	James T Learakos	Lower Santa Ana River
CHILI'S GRILL & BAR \$562	1411	W	KATELLA	AVE		92867	5810	90544	-117.86754567900	33.80921952750	Roger F Thomas	Lower Santa Ana River
CENTURY STADIUM PROMENADE	1501	W	KATELLA	AVE		92867	5812	90210	-117.83800275900	33.81009828920	Teresa Goss	Lower Santa Ana River
KINGS FISH HOUSE	1521	W	KATELLA	AVE		92867	5810	93851	-117.86899311600	33.80843978850	Samuel King	Lower Santa Ana River
ACAPULCO RESTAURANT Y CANTINA	1535	W	KATELLA	AVE		92867	5810	96939	-117.86927718100	33.80821203770	Fedrick F Wolfe	Lower Santa Ana River
PRIME CUT CAFÉ & WINE BAR	1547	W	KATELLA	AVE	101	92867	5810	129007			Mohammad Iqbal	Lower Santa Ana River
AULD IRISHER	1547	W	KATELLA	AVE		92867	5810	125082	-117.86968798000	33.80784986200	Terrance J Branley	Lower Santa Ana River
THE LAZY DOG CAFÉ	1623	W	KATELLA	AVE		92867	5810	121931			Christopher S Simms	Lower Santa Ana River
BOB'S BIG BOY	1623	W	KATELLA	AVE		92867	5810	130819			Tavinder K Sawhney	Lower Santa Ana River
TUTTIMELON KATELLA	1623	W	KATELLA	AVE	101	92867	2024	133736			Daly Chen	Lower Santa Ana River
STARBUCKS COFFEE #10713	1701	W	KATELLA	AVE		92867	5810	121078			Karyl Clark	Lower Santa Ana River
HENRY BEAN'S GOURMET COFFEE & SUNDRIE	1010	W	LA VETA	AVE	#120	92868	5812	131180			Lawrence E Porter	Lower Santa Ana River
CENTRE CAFE	1120	W	LA VETA	AVE	#110	92868	5812	112037	-117.86435912100	33.78000796410	Kyung S Park	Lower Santa Ana River
TACO ADOBE	121	N	LEMON	ST		92866	5810	121430			Patrick G Dillon	Lower Santa Ana River
AVOCADOS OF ORANGE	145	N	LEMON	ST		92866	2090	124488	-117.85508393100	33.78868259630	Yair Crane	Lower Santa Ana River
AMERICAN LEGION POST #132	143	S	LEMON	ST		92866	5140	120735	-117.85506234300	33.78690548430	James L Moreno	Lower Santa Ana River
YUMMIES BAKERY/CATERING	143	S	LEMON	ST		92866	2099	134541	-117.85506234300	33.78690548430	Janice Meiners	Lower Santa Ana River
WIENERSCHNITZEL #660	108	W	LINCOLN	AVE		92865	5812	101467			Ray Bahrami	Lower Santa Ana River
ORANGE TREE DELI	124	E	LINCOLN	AVE		92865	5499	3132			James Gattari Sr	Lower Santa Ana River
JUMBO DONUTS	138	E	LINCOLN	AVE		92865	5812	52100	-117.85182794200	33.83539045700	Nelson Year	Lower Santa Ana River
LA CASITA	209	E	LINCOLN	AVE		92865	5812	35311	-117.85120231100	33.83593658050	May L Cordaway	Lower Santa Ana River
TROYS DRIVE IN	404	E	LINCOLN	AVE		92865	5812	95326			Eva Sigas	Lower Santa Ana River

City of Orange  
Commercial Inventory 20011-2012

PHO 816	816	E	LINCOLN	AVE		92865	5810	134183	-117.84500327900	33.83602809970	Kenn Thi	Lower Santa Ana River	
THE OLIVE PIT	834	E	LINCOLN	AVE		92865	5810	87903			Thomas T Tunstall	Lower Santa Ana River	
DEL TACO #319	1440	E	LINCOLN	AVE		92865	5812	121433	-117.83834140700	33.83468824720	Shirlene Lopez	Lower Santa Ana River	
KAI JAPANESE RESTAURANT	1448	E	LINCOLN	AVE		92865	5812	125811	-117.83848068800	33.83375324240	Hyunk Kim	Lower Santa Ana River	
WHAT A LOTTA PIZZA	1500	E	LINCOLN	AVE		92865	5812	121024			April Armendariz	Lower Santa Ana River	
SUBWAY	1506	E	LINCOLN	AVE		92865	5800	134095			John H Asfour	Lower Santa Ana River	
MS. DONUTS	1602	E	LINCOLN	AVE		92865	2050	117551	-117.83741780100	33.83463488420	Khoun Chau	Lower Santa Ana River	
CHINA WOK	1604	E	LINCOLN	AVE		92865	5812	78956	-117.83730027900	33.83463321210	Hak Hearingz Gauv	Lower Santa Ana River	
LAKEVIEW BANQUET CENTER	1615	E	LINCOLN	AVE		92865	5810	111687	-117.83761404800	33.83598850270	Edward Rangel	Lower Santa Ana River	
THE GOLDEN BOWL PHO & GRILL	1628	E	LINCOLN	AVE		92867	5812	125054			Hong T Nguyen	Lower Santa Ana River	
DENNY'S	1695	E	LINCOLN	AVE		92865	5810	101192	-117.83654477800	33.83617792940	Holly Agassi	Lower Santa Ana River	
RUBY'S GRILL BAJA STYLE	800	N	MAIN	ST		92868	5812	118160			Armando & A Arredondo	Lower Santa Ana River	
BEBE'S CAFE	1432	N	MAIN	ST	#B	92867	5810	85733	-117.86758242000	33.81038164050	Don Chew	Lower Santa Ana River	
WASABI	130	S	MAIN	ST	#G	92868	5810	127398			Chang Min Kim	Lower Santa Ana River	
STARBUCKS COFFEE	130	S	MAIN	ST		92868	5810	103689			Howard Schultz	Lower Santa Ana River	
QUIZNO'S CLASSIC SUBS	130	S	MAIN	ST	#H	92868	5810	122824			Subhash Chander	Lower Santa Ana River	
HACIENDA FLORES MEXICAN FOOD	146	S	MAIN	ST		92868	5812	63627	-117.86786310800	33.78715769250	Adolfo Flores	Lower Santa Ana River	
PHO HAO	146	S	MAIN	ST	#T	92868	5812	122487			Van C Nguyen	Lower Santa Ana River	
CHILI PEPPER	167	S	MAIN	ST		92868	5810	4480	-117.86712277700	33.78676654150	Miguel A Perfetti	Lower Santa Ana River	
MANHATTAN STEAK & SEAFOOD	202	S	MAIN	ST		92868	5810	125322	-117.86763777800	33.78576100970	Thomas Khosrovian	Lower Santa Ana River	
PAPA JOHN'S PIZZA	310	S	MAIN	ST		92868	5812	116817			Fouad Tarazi	Lower Santa Ana River	
PICKLE'S	312	S	MAIN	ST		92868	5812	124695			Keum S Park	Lower Santa Ana River	
DOLLY'S DONUTS & COOKIES TOO	350	S	MAIN	ST		92868	2050	112386	-117.86800715800	33.78310578860	Karen Sok	Lower Santa Ana River	
HAPPY TERRIYAKI AND SANDWICHES	352	S	MAIN	ST		92868	5810	98658	-117.86767244100	33.78293279510	Young O Woo	Lower Santa Ana River	
HOLLINGSHEAD'S DELICATESSEN	368	S	MAIN	ST		92868	5812	59067	-117.86850032800	33.78304333890	Kenneth & J Hollingshead	Lower Santa Ana River	
LUCKY STAR	374	S	MAIN	ST		92868	5812	83191	-117.86857793000	33.78268538890	Yuk Shan Tam	Lower Santa Ana River	
THE PIZZA STORE	380	S	MAIN	ST		92868	5810	113077			Chris K Kim	Lower Santa Ana River	
DUKE'S BURGER	388	S	MAIN	ST		92868	5812	118190	-117.86767875700	33.78264424340	Young Hee Ahn	Lower Santa Ana River	
CARL'S JR. RESTAURANT #392	402	S	MAIN	ST		92868	5812	9363	-117.86773181100	33.78211475650	Andrew Puzder	Lower Santa Ana River	
ANEPALCO'S CAFE	415	S	MAIN	ST		92868	5812	126782	-117.86688573400	33.78195718410	Amaryllis Lopez	Lower Santa Ana River	
TOGO'S-BASKIN ROBBINS	424	S	MAIN	ST	#A	92868	5812	100542	-117.86838596400	33.78151136710	Steven J Rosansky	Lower Santa Ana River	
HON'S WOK	424	S	MAIN	ST	#C	92868	5812	121860	-117.86838596400	33.78151136710	Sook J Lee	Lower Santa Ana River	
ROMA D'ITALIA ORANGE	424	S	MAIN	ST	#D	92868	722410	143548	-117.86838596400	33.78151136710	Alfio Rossetti	Lower Santa Ana River	
MITAKI JAPANESE RESTAURANT #5	424	S	MAIN	ST	#F	92868	5812	127566	-117.86838596400	33.78151136710	Kyuang S Park	Lower Santa Ana River	
KAFFA	424	S	MAIN	ST	#K	92868	5812	122184	-117.86838596400	33.78151136710	Eunsook Kim	Lower Santa Ana River	
CHARLEY'S GRILLED SUBS	445	S	MAIN	ST	#B	92868	5812	109953	-117.86712139400	33.78155142100	Max X Do	Lower Santa Ana River	
CHOCO'S COFFEE CORNER	455	S	MAIN	ST		92868	5812	128083	-117.86711430200	33.78084089970	Melynda M Tam	Lower Santa Ana River	
TACO BELL	468	S	MAIN	ST		92868	5812	118787			Robert Brunson	Lower Santa Ana River	
PLAZA CAFE	500	S	MAIN	ST	102	92868	5812	123560			Shi Back Nam	Lower Santa Ana River	
RUBIO'S BAJA GRILL #109	691	S	MAIN	ST	#150	92868	5810	100431	-117.86684604600	33.77724541430	Ralph Rubio	Lower Santa Ana River	
COLDSTONE CREMERY #197	691	S	MAIN	ST		92868	2024	112968	-117.86684604600	33.77724541430	Stanley Kim	Lower Santa Ana River	
JAMBA JUICE #161	691	S	MAIN	ST	90	92868	5812	97342	-117.86684604600	33.77724541430	Karen Luey	Lower Santa Ana River	
SUBWAY	691	S	MAIN	ST		92868	5812	127545	-117.86684604600	33.77724541430	Alireza Jalalipour	Lower Santa Ana River	
STARBUCKS COFFEE #5724	691	S	MAIN	ST	#100	92868	5812	97037	-117.86684604600	33.77724541430	Howard Schultz	Lower Santa Ana River	
YOGURT MANIA	691	S	MAIN	ST	#140	92868	5812	143760	-117.86684604600	33.77724541430	Woong Kun Song	Lower Santa Ana River	
THE FLAME BROILER	745	S	MAIN	ST	150	92868	5812	129504			Hong Seok Woo	Lower Santa Ana River	
ARRIBA BAJA GRILL	745	S	MAIN	ST	#170	92868	5812	105791	-117.86678130900	33.77629653930	Rick Zak	Lower Santa Ana River	
PAT & OSCAR'S	763	S	MAIN	ST	#200AB	92868	5810	102708			F F F P E LLC	Lower Santa Ana River	
BARNES & NOBLE BOOKSELLERS	791	S	MAIN	ST	#100	92868	5942	121012	-117.86681334200	33.77515689910	Barnes & Noble Inc	Lower Santa Ana River	
ORANGE CAFE	1608	E	MAYFAIR	AVE		92867	5812	95304			Morris L & Linda Mc Elvogu	Lower Santa Ana River	
SILVERADO SMOKEHOUSE	1051	N	MEADS			92869	2099	125151			Jeff H Keen	Lower Santa Ana River	
PULP ACTION AT LA FITNESS	3901	W	METROPOLITAN	DR		92868	2037	97555			Min Su Kim	GG-WINTERSBURG	
THE VICTORIAN MANOR	204	N	OLIVE	ST		92866	5812	86918			James & Carol Cox	Lower Santa Ana River	
AVILAS EL RANCHITO	182	S	ORANGE	ST		92866	722410	156752			Marcus Avila	Lower Santa Ana River	
MANHATTAN SUB	1915	E	ORANGEWOOD	AVE	#104	92868	5812	109220	-117.87319804500	33.79590913200	Daoud I Daoud	Lower Santa Ana River	
TAQUERIA GUADALUPANA	1997	N	ORANGE OLIVE	RD	#B	92865	5812	111964			Jose & M Fonseca	Lower Santa Ana River	
HIDE AWAY RESTAURANT	2117	N	ORANGEOLIVE	RD		92865	5812	128379	-117.85035915000	33.82355549600	Badih Maroun	Lower Santa Ana River	
C & E BAKERY	2703	N	ORANGE OLIVE	RD		92865	2050	114488	-117.84632850700	33.83378146730	Leah N Kochi	Lower Santa Ana River	
CHASER'S LOUNGE	2765	N	ORANGE OLIVE	RD		92865	5813	94752	-117.84645658400	33.83532818740	Michael Jurado	Lower Santa Ana River	
SALTY DAWG	1214	N	PARKER	ST		92867	5810	128832			Kimberly D Conroy	Lower Santa Ana River	
E CROISSANTS	721	S	PARKER	ST	#110	92868	5812	102299	-117.85886134200	33.77587683920	Yun Soo Lee	Lower Santa Ana River	
TWO'S COMPANY CAFE & CATERING	22		PLAZA	SQ		92866	5812	132286			Julian P & E Hernandez	Lower Santa Ana River	
FELIX CONTINENTAL CAFE	36		PLAZA	SQ		92866	5810	36650	-117.85340063000	33.78742414960	Ramon Calderon	Lower Santa Ana River	
STARBUCKS COFFEE #14020	44		PLAZA	SQUARE		92866	5812	121588			Starbucks Corp	Lower Santa Ana River	
BAGEL ME	60		PLAZA	SQUARE		92866	5812	122024	-117.85370745100	33.78823873780	Stuart S Golub	Lower Santa Ana River	
H SALT FISH & CHIPS	142	E	RIVERDALE	AVE		92865	5812	134193			Ghazala Asaf Qadeer	Lower Santa Ana River	

City of Orange  
Commercial Inventory 20011-2012

ONE FISH TWO FISH	2658	N	SANTIAGO	BLVD		92867	5810	143419			Terran Scheuffele	Lower Santa Ana River	
SPIRES RESTAURANT	2848	N	SANTIAGO	BLVD		92867	5812	115240			Brito & Brito	Lower Santa Ana River	
HILTON SUITES	400	N	STATE COLLEGE	BLVD		92868	5810	124786	-117.88971059800	33.79439295490	Jeffrey H Fisher	GG-WINTERSBURG	
NATIONAL SPORTS GRILL	450	N	STATE COLLEGE	BLVD		92868	5810	127274			Behrod Ganjifard	GG-WINTERSBURG	
BREAK TIME	500	N	STATE COLLEGE	BLVD		92868	5812	122927	-117.88959891900	33.79567122110	Yun C Song	Lower Santa Ana River	
TED'S BURGERS	125	E	TAFT	AVE		92865	5812	77441			Jung W Cho	Lower Santa Ana River	
SANDWICH CAFE	902	W	TOWN & COUNTRY	RD	902	92868	5812	122895			Juna A Park	Lower Santa Ana River	
TOWN & COUNTRY CAFE	1100	W	TOWN & COUNTRY	RD	150	92868	5812	111626			Candee W Kim	Lower Santa Ana River	
GONDOLA SUBS	1111	W	TOWN & COUNTRY	RD	2	92868	5812	110906	-117.86423837900	33.77676467800	Loukman K Abdul-Kareem	Lower Santa Ana River	
SUBWAY	125	N	TUSTIN	ST	E	92867	5812	128879			Om B Gupta	Lower Santa Ana River	
CARL'S JR RESTAURANT	145	N	TUSTIN	ST		92867	5812	133591			Andrew Puzder	Lower Santa Ana River	
RISTORANTE GENOVESE	214	N	TUSTIN	ST		92867	5810	120105			Albert A Genovese	Lower Santa Ana River	
ARTHUR'S COFFEE SHOP	240	N	TUSTIN	ST		92867	5812	87848	-117.83618000300	33.79039083640	Katz & Katz	Lower Santa Ana River	
WINCHELL'S #171	272	N	TUSTIN	ST		92867	5812	114300			Lincoln Watase	Lower Santa Ana River	
TAQUERIA DE ANDA	291	N	TUSTIN	ST		92867	5812	111236			Rafael H De Anda	Lower Santa Ana River	
TACOS SINALOA #2	331	N	TUSTIN	ST		92867	5810	133390			Jesus A Payan	Lower Santa Ana River	
BASKIN ROBBINS #122	434	N	TUSTIN	ST		92867	5812	98668	-117.83608601500	33.79440051920	Mai X Phan	Lower Santa Ana River	
H SALT FISH & CHIPS	436	N	TUSTIN	ST		92867	5812	121374	-117.83626845800	33.79439820170	Ying Kang	Lower Santa Ana River	
ICHI TERIYAKI & ROLLS	450	N	TUSTIN	ST		92867	5812	114778	-117.83627974500	33.79450361810	Ki W Jung	Lower Santa Ana River	
TACOS JALISCO	480	N	TUSTIN	ST		92867	5810	126479			Jaime Gomez	Lower Santa Ana River	
TACO BELL #3069	490	N	TUSTIN	ST		92867	5812	126249			Robert Brunson	Lower Santa Ana River	
SUBWAY #1465	511	N	TUSTIN	ST		92867	5812	121239			Om B Gupta	Lower Santa Ana River	
VALENTINO'S PIZZERIA	513	N	TUSTIN	ST		92867	5812	79207			Miguel Martinez	Lower Santa Ana River	
ISLANDS RESTAURANT	550	N	TUSTIN	ST		92867	5812	82779	-117.83605490700	33.79573388360	Dong Kollus	Lower Santa Ana River	
CHICKEN BOWL EXPRESS	554	N	TUSTIN	ST		92867	722211	156891	-117.83613370400	33.79592088850	Fugen Luan	Lower Santa Ana River	
MARIE CALLENDER	574	N	TUSTIN	ST		92867	5810	115408	-117.83609192600	33.79629929480	Sang K Sun	Lower Santa Ana River	
SIZZLER #43	584	N	TUSTIN	ST		92867	5810	114824			Mohammed K Islam	Lower Santa Ana River	
GREEN CHINA	595	N	TUSTIN	ST		92867	5810	133431	-117.83546857000	33.79665803650	Yang Jin	Lower Santa Ana River	
MCDONALD'S	606	N	TUSTIN	ST		92867	5812	24142	-117.83603897800	33.79690111570	Donald Dunkleman	Lower Santa Ana River	
EL NUEVO MARIACHI RESTAURANT INC	650	N	TUSTIN	ST		92867	5810	134497	-117.83627967200	33.79768555630	Rodolfo Garduno	Lower Santa Ana River	
A TASTE OF SICILY	665	N	TUSTIN	ST	F	92867	5810	128370	-117.83545414800	33.79840676330	Brian T Pullan	Lower Santa Ana River	
BEHIND THE SCENES	665	N	TUSTIN	ST	#J	92867	5812	51696	-117.83545414800	33.79840676330	Elaine Lai	Lower Santa Ana River	
KENTUCKY FRIED CHICKEN	704	N	TUSTIN	ST		92867	5812	107825	-117.83605234200	33.79861322530	Gregg Dedrick	Lower Santa Ana River	
INTERNATIONAL HOUSE OF PANCAKE	707	N	TUSTIN	ST		92867	5812	115426	-117.83544791000	33.79879021970	Saeed S Medali	Lower Santa Ana River	
CONCA D'ORO	776	N	TUSTIN	ST		92867	5810	122263	-117.83604639400	33.80011118850	Frank Cangelosi	Lower Santa Ana River	
LOS CABOS MEXICAN	843	N	TUSTIN	ST		92867	5810	62838	-117.83542703300	33.80149762390	Ralph A Sandoval	Lower Santa Ana River	
CHIN'S KITCHEN	934	N	TUSTIN	ST		92867	5812	122123	-117.83588953900	33.80291697700	Chein W Chin	Lower Santa Ana River	
TULSA RIB COMPANY	954	N	TUSTIN	ST		92867	5810	83821			Stephen Parker	Lower Santa Ana River	
CANCUN JUICE	970	N	TUSTIN	ST	C	92867	5810	132370	-117.83612506700	33.80334971550	Ramon Alvarado	Lower Santa Ana River	
THE TACO COMPANY	1009	N	TUSTIN	ST		92867	5810	84664			Jose M Castellanos	Lower Santa Ana River	
JOHNNIE'S JR BURGERS	1062	N	TUSTIN	ST		92867	5812	125007	-117.83606616400	33.80509497840	Jung A Jikim	Lower Santa Ana River	
ARBY'S	1107	N	TUSTIN	ST		92867	5812	129860			Todd E Matthews	Lower Santa Ana River	
JACK DONUTS	1120	N	TUSTIN	ST	#101	92867	5812	63160	-117.83623960500	33.80645007910	Sear Chen	Lower Santa Ana River	
THE RUPEE ROOM	1170	N	TUSTIN	ST		92867	5810	132579			Balbir Singh	Lower Santa Ana River	
EL TORITO NUEVO	1175	N	TUSTIN	ST		92867	5812	118012	-117.83548391400	33.80716195210	Adauto Montejano	Lower Santa Ana River	
LA ESPIGA DE ORO MARKET	1177	N	TUSTIN	ST		92867	445110	154429			Gerardo Ruiz Cedeno	Lower Santa Ana River	
LEIXWOOD INTERNATIONAL ENTERPRISES INC	1192	N	TUSTIN	ST		92867	5180	132473			Dennis Y Ki	Lower Santa Ana River	
WENDY'S OLD FASHIONED #503	1237	N	TUSTIN	ST		92867	5812	37446			Michael J Kourie	Lower Santa Ana River	
BIG CITY BAGELS	1267	N	TUSTIN	ST		92867	5499	122812	-117.83554742600	33.80863185980	Sei-Jin Noh	Lower Santa Ana River	
YOSHINOYA RESTAURANT	1273	N	TUSTIN	ST	A	92867	5812	130603			Hisashi Ikegami	Lower Santa Ana River	
ROYAL THAI ORCHID	1315	N	TUSTIN	ST		92867	5810	35412			Nittaya Yaibauthes	Lower Santa Ana River	
EL PATIO RESTUARANT	1325	N	TUSTIN	ST		92867	5810	56934	-117.83554786600	33.80998923430	Aurora Angel	Lower Santa Ana River	
CABO LOCO GRILL	1419	N	TUSTIN	S	A	92865	5812	125130	-117.83557814500	33.81084869640	Jose P & M Trejo	Lower Santa Ana River	
POLKA DELI	1710	N	TUSTIN	ST		92865	5812	92934			Grace Swiatkowski	Lower Santa Ana River	
OC TACO JOINT	1724	N	TUSTIN	ST		92865	5810	143417	-117.83624357000	33.81654758930	Cindy L Vasquez	Lower Santa Ana River	
TAKAYARA	1736	N	TUSTIN	ST		92865	5810	122584			James S Park	Lower Santa Ana River	
TAC DO DONUTS	1738	N	TUSTIN	ST		92865	2050	118981			Dano Sam	Lower Santa Ana River	
THAI CHILI RESTAURANT	1812	N	TUSTIN	ST		92865	722110	154130			Chanchai Engudomnukau	Lower Santa Ana River	
CEDARS RESTAURANT	1840	N	TUSTIN	ST	A	92865	5810	132837	-117.83642887000	33.81827164850	Antoine Diab	Lower Santa Ana River	
YANG-MING GARDEN RESTAURANT	1866	N	TUSTIN	ST		92865	5810	79181			Yi Chung Teng	Lower Santa Ana River	
CHUCK E CHEESE'S	1875	N	TUSTIN	ST		92865	5810	120000	-117.83573521800	33.81904801180	Richard M Frank	Lower Santa Ana River	
WIENERSCHNITZEL #293	1888	N	TUSTIN	ST		92865	5812	132686			Kee E Kim	Lower Santa Ana River	
RALPH'S SUBMARINE SANDWICH	1891	N	TUSTIN	ST		92865	5812	51380			Chul Yong & Bu Ja We	Lower Santa Ana River	
AMAI SUSHI	1904	N	TUSTIN	ST		92865	5812	121881	-117.83640121100	33.82011620100	Chong Hee Lee	Lower Santa Ana River	
TITOS LA FAMILIA INC	1948	N	TUSTIN	ST		92865	722211	154728			Michelle Geisen	Lower Santa Ana River	
OHSHIMA	1956	N	TUSTIN	ST		92865	722110	155864			Shigenari Kimura	Lower Santa Ana River	

City of Orange  
Commercial Inventory 20011-2012

DONA MECHE MEXICAN FOOD #2	1981	N	TUSTIN	ST		92865	5810	123355	-117.83554899300	33.82103942300	Liborio Salazar	Lower Santa Ana River
DARYA RESTAURANT	1998	N	TUSTIN	ST		92865	5810	66795	-117.83636455700	33.82099198330	Ali B Salout	Lower Santa Ana River
TAQUERIA LA POBLANA	2018	N	TUSTIN	ST		92865	5812	117945			Gorgonio C Cruz	Lower Santa Ana River
PHO OF ORANGE	2024	N	TUSTIN	ST		92865	722211	154741			Linh Bang Trinh	Lower Santa Ana River
POLLY'S PIES	2025	N	TUSTIN	ST		92865	5810	8329			Harvey E Sheldrake	Lower Santa Ana River
ZITO'S PIZZA	2036	N	TUSTIN	ST		92865	5810	102228			Steven M Silverstein	Lower Santa Ana River
KING LOBSTER PALACE	2045	N	TUSTIN	ST		92865	5810	126147	-117.83579249900	33.82166780880	Steve J Limb	Lower Santa Ana River
PIZZA HUT #705415	2091	N	TUSTIN	ST		92865	5812	125006			Ramesh Patel	Lower Santa Ana River
WAIKIKI HAWAIIAN GRILL	2094	N	TUSTIN	ST	#A2	92865	5812	120420			Suk H Furguson	Lower Santa Ana River
SUBWAY	2094	N	TUSTIN	ST	B	92865	5812	85817			Ramsey Asfour	Lower Santa Ana River
O C FISH N CHIP	2094	N	TUSTIN	ST	#C1	92865	722211	155600	-117.83650466200	33.82257275840	Justin Lo	Lower Santa Ana River
SUMMER LAND CATERING	2094	N	TUSTIN	ST	C	92865	2099	133705			Adnan Assaf	Lower Santa Ana River
ZENA'S LEBANESE CUISINE	2094	N	TUSTIN	ST		92865	5812	97723			Shouki S Masri	Lower Santa Ana River
STARBUCKS COFFEE #5704	2115	N	TUSTIN	ST	#2	92865	5812	96300			Howard Schultz	Lower Santa Ana River
BOBBY D'S MEXICAN FOOD	2139	N	TUSTIN	ST	#1	92865	5812	133301	-117.83578019500	33.82370197470	Ryan P Dominguez	Lower Santa Ana River
THE FLAME BROILER	2139	N	TUSTIN	ST	#2	92865	5812	133571	-117.83578019500	33.82370197470	Annar Karim	Lower Santa Ana River
GOLDEN SPOON FROZEN YOGURT	2139	N	TUSTIN	ST	#7	92865	5812	122567	-117.83578019500	33.82370197470	Daniel E Finch	Lower Santa Ana River
ARNONES LITTLE ITALY	2143	N	TUSTIN	ST	#7	92865	5810	112050	-117.83440867400	33.82358686740	Gary M Arnone	Lower Santa Ana River
DOMINO'S PIZZA	2143	N	TUSTIN	ST	#8	92865	5812	87371	-117.83440867400	33.82358686740	Parviz Motazadi	Lower Santa Ana River
TARGET STORES #230	2191	N	TUSTIN	ST		92865	5311	45720			Jack Reif	Lower Santa Ana River
CHIPOTLE MEXICAN GRILL	2202	N	TUSTIN	ST	#A	92865	5810	113056	-117.83628275300	33.82597889850	Steven M Ells	Lower Santa Ana River
JAMBA JUICE	2202	N	TUSTIN	ST	#B	92865	5810	112499	-117.83628275300	33.82597889850	Paul Clayton	Lower Santa Ana River
THE COFFEE BEAN & TEA LEAF	2202	N	TUSTIN	ST	#C	92865	5810	113144	-117.83628275300	33.82597889850	Sunny Sasson	Lower Santa Ana River
PASTA POMODORO	2214	N	TUSTIN	ST	#B	92865	5810	112786			Adriano Paganini	Lower Santa Ana River
PANERA BREAD	2214	N	TUSTIN	ST	#A	92865	5810	130305			Patrick M Rogers	Lower Santa Ana River
COLDSTONE CREMERY	2233	N	TUSTIN	ST	#G	92865	311520	156888	-117.83585856100	33.82496954110	Vincent Chao	Lower Santa Ana River
TACO BELL	2233	N	TUSTIN	ST	#A	92865	5812	126248	-117.83585856100	33.82496954110	Robert Brunson	Lower Santa Ana River
TOGO'S	2233	N	TUSTIN	ST	#C	92865	5812	118533	-117.83585856100	33.82496954110	Mai X Phan	Lower Santa Ana River
TIKIYAKI	2271	N	TUSTIN	ST		92865	5812	153576	-117.83586587700	33.82591045840	Shwu Yug Wu	Lower Santa Ana River
DESIMONE DELICATESSEN	2279	N	TUSTIN	ST		92865	5812	129057	-117.83561190200	33.82601464020	Edward Acevedo	Lower Santa Ana River
MCDONALD'S	2300	N	TUSTIN	ST		92865	5812	90592	-117.83851745700	33.82806765830	Donald Dunkleman	Lower Santa Ana River
FUJI GRILL	2318	N	TUSTIN	ST	#B	92865	5812	117457	-117.83659006700	33.82832490330	Kenmil Lee	Lower Santa Ana River
RUBIO'S BAJA GRILL	2318	N	TUSTIN	ST	#A	92865	5812	91002	-117.83659006700	33.82832490330	Rubio's Rest. Inc	Lower Santa Ana River
FATBURGER	2318	N	TUSTIN	ST	#C	92865	5812	124548	-117.83659006700	33.82832490330	Don Berchtold	Lower Santa Ana River
THE OLIVE GARDEN	2330	N	TUSTIN	ST		92865	5810	74622			William R White III	Lower Santa Ana River
MCDONALD'S	2401	N	TUSTIN	ST		92865	5812	133403	-117.83592411100	33.82862452260	Larry S Kaplan	Lower Santa Ana River
KENTUCKY FRIED CHICKEN	2469	N	TUSTIN	ST		92865	5812	107824	-117.83594102300	33.82941263130	Gregg Dedrick	Lower Santa Ana River
JACK IN THE BOX #196	2500	N	TUSTIN	ST		92865	5812	130918	-117.83653205800	33.83052835960	James M Christensen	Lower Santa Ana River
BOO BERRIES	2550	N	TUSTIN	ST		92865	5148	133918			Paul Corrigan	Lower Santa Ana River
CHICK-FIL-A	2575	N	TUSTIN	ST		92865	5812	120414	-117.83521678000	33.83132737610	Larry W Worsham	Lower Santa Ana River
IN-N-OUT BURGER	2585	N	TUSTIN	ST		92865	5812	112101	-117.83564616700	33.83193738550	Mark Taylor	Lower Santa Ana River
DEL TACO #82	2607	N	TUSTIN	ST		92865	5812	121432	-117.83588429800	33.83246704070	Shirlene Lopez	Lower Santa Ana River
I FRO YO	2634	N	TUSTIN	ST		92865	5812	130972	-117.83661522100	33.83327341490	Kevin Luu	Lower Santa Ana River
TARTAN ROOM	2652	N	TUSTIN	ST		92865	5810	96928			Massimo Serluca	Lower Santa Ana River
BURGER KING	2734	N	TUSTIN	ST		92865	722211	155262	-117.83662503500	33.83408097400	Allen B Gantes	Lower Santa Ana River
OSTIONERIA BAHIA	144	S	TUSTIN	ST		92866	5810	98656			Celso Calderoy	Lower Santa Ana River
EL TACO OF ORANGE	205	S	TUSTIN	ST		92866	5812	113021	-117.83553172700	33.78557361840	Young-Mo Koo	Lower Santa Ana River
TWENTY TWO CAFE	235	S	TUSTIN	ST		92866	5812	128061			Jorge Gordillo	Lower Santa Ana River
VEGPLANET LLC	237	S	TUSTIN	ST		92866	5812	131261			Thanh Q Dang	Lower Santa Ana River
CARNITAS LOS REYES	273	S	TUSTIN	ST		92866	5812	60692	-117.83527776000	33.78464447250	Jose Ecalera	Lower Santa Ana River
STEER INN	801	S	TUSTIN	ST		92866	5810	83820			Dyrce G Silva	Lower Santa Ana River
DIPPIN DOTS	1500	E	VILLAGE	WY	#2179	92865	2024	125046	-117.83768305800	33.82620193450	Millicent Aranyi	Lower Santa Ana River
CHINESE KITCHEN	1500	E	VILLAGE	WY	#2183	92865	5812	122161	-117.83768305800	33.82620193450	Seung J Choi	Lower Santa Ana River
MONGOLIAN GRILL	1500	E	VILLAGE	WY	#2185	92865	5812	122608	-117.83768305800	33.82620193450	Ho S Lee	Lower Santa Ana River
BUSY BEE ASIAN FOOD	1500	E	VILLAGE	WY	#2191	92865	5812	123415	-117.83768305800	33.82620193450	Young S Kim	Lower Santa Ana River
RED ROBIN BURGER & SPIRITS	1500	E	VILLAGE	WY	#2199	92865	5810	58338	-117.83768305800	33.82620193450	Dennis B Mullen	Lower Santa Ana River
CITYWOK	1500	E	VILLAGE	WAY	2115	92865	5812	124249	-117.83768305800	33.82620193450	Hyung G Park	Lower Santa Ana River
SPROUTS FARMERS MARKET	1500	E	VILLAGE	WAY	2279	92865	445110	156193	-117.83768305800	33.82620193450		Lower Santa Ana River
QUIZNO'S	1500	E	VILLAGE	WY	2373	92865	5812	126542	-117.83768305800	33.82620193450	Grace Hung	Lower Santa Ana River
TODAI RESTAURANT	1500	E	VILLAGE	WY	#2203	92865	5810	113838	-117.83768305800	33.82620193450	Hyae S Kang	Lower Santa Ana River
FIL-AM BBQ GRILL	1500	E	VILLAGE	WY	#2215	92865	722211	155420	-117.83768305800	33.82620193450	Antonio Serrano	Lower Santa Ana River
SUBWAY #24786	1500	E	VILLAGE	WY	#2221	92865	5812	134309	-117.83768305800	33.82620193450	John Asfour	Lower Santa Ana River
HOPPIN POPPIN KETTLEKORN	1500	E	VILLAGE	WAY	2162	92865	5812	124072	-117.83768305800	33.82620193450	Glenda Farrell	Lower Santa Ana River
QUIZNOS	1500	E	VILLAGE	WAY	2372	92865	5812	126542	-117.83768305800	33.82620193450	Grace Hung	Lower Santa Ana River
OLD ORANGE CHOCOLATE SHOPPE	1500	E	VILLAGE	WAY		92865	5441	132697	-117.83768305800	33.82620193450	Kyle & Candice Wright	Lower Santa Ana River
SBARRO	1500	E	VILLAGE	WY	2217	92865	5812	118170	-117.83768305800	33.82620193450	Ho S Lee	Lower Santa Ana River

City of Orange  
Commercial Inventory 20011-2012

CHINESE KITCHEN	1500	E	VILLAGE	WY	2183	92865	5812	122161	-117.83768305800	33.82620193450	Seung J Choi	Lower Santa Ana River
AUNTIE ANNE'S	1500	E	VILLAGE	WY	2186	92865	5812	120785	-117.83768305800	33.82620193450	Hye Young Lee	Lower Santa Ana River
MRS. FIELDS COOKIES #138	1500	E	VILLAGE	WY	#2229	92865	2050	116554	-117.83768305800	33.82620193450	The T & K Ha T Cung	Lower Santa Ana River
OGGIS PIZZA & BREWING CO	1500	E	VILLAGE	WY	#2295	92865	5810	105524	-117.83768305800	33.82620193450	John F Green	Lower Santa Ana River
HOLIDAY SKATE CENTER	175	N	WAYFIELD	ST		92867	5812	90047	-117.83260244900	33.78927715210	Gail L Collier	Lower Santa Ana River
DENNY'S INC	133	S	YORBA	ST		92869	722110	153994			Wayne Hall	Lower Santa Ana River

Sub Total=436

<b>5813 DRINKING PLACES</b>												
CLUB RIO BALSAS	851	W	BARKLEY	AVE		92868	5813	100866	-117.86139566300	33.80153813680	Rosa Y Diaz	Lower Santa Ana River
JIMMY BONES	1815	E	CHAPMAN	AVE	#B	92867	5813	109172	-117.83446129100	33.78832458900	Karin Sue Ashton	Lower Santa Ana River
BLONDIE'S	3425	E	CHAPMAN	AVE		92869	5813	58063	-117.81682454300	33.78866653980	James & V Murphy	Lower Santa Ana River
SIGNAL LOUNGE	3804	E	CHAPMAN	AVE	#F	92869	5813	68596			Robert P & S Conley	Lower Santa Ana River
PAULS	207	W	CHAPMAN	AVE		92866	5813	22746			Michael Schmidt	Lower Santa Ana River
THE DISTRICT	223	W	CHAPMAN	AVE		92866	5813	113743			Mario Marovic	Lower Santa Ana River
PUMP ROOM GALS	1532	W	CHAPMAN	AVE		92868	5813	111601			Seth L Weiss	Lower Santa Ana River
GOLDEN CUE	1719	W	CHAPMAN	AVE		92868	5813	7058	-117.87112214900	33.78798417560	Wilfred H Meyer	Lower Santa Ana River
O'HARAS PUB	150	N	GLASSELL	ST		92866	5813	105346			Christine Thompson	Lower Santa Ana River
DANNY K'S CAFE & BILLIARDS	1096	N	MAIN	ST		92867	5810	128390	-117.86744906400	33.80576705500	Danny R Kuykendall	Lower Santa Ana River
MARTY'S	1766	N	TUSTIN	ST		92865	5813	102204	-117.83680304600	33.81670833290	Barabara S Littman	Lower Santa Ana River

Sub Total=11

<b>SCHOOLS</b>												
YORBA JR HIGH SCHOOL	935	N	CAMBRIDGE	ST		92867	8211	40126			OUSD	Lower Santa Ana River
RANCHO SANTIAGO COLLEGE	8045	E	CHAPMAN	AVE		92869	8222	65110			Rancho Santiago CCD	Lower Santa Ana River
LA PURISIMA SCHOOL	11712		HEWES	ST		92869	181	PR0023704	-117.80552429300	33.79118673380	Orange County Diocese	Lower Santa Ana River
PORTOLA JR HIGH SCHOOL	270	N	PALM	DR		92868	8211	40124			OUSD	Lower Santa Ana River
MCPHERSON SCHOOL	333	S	PROSPECT	ST		92869	8211	40122	-117.81810684100	33.78313683750	OUSD	Lower Santa Ana River
SANTIAGO MIDDLE SCHOOL	515	N	RANCHO SANTIAGO	BLVD		92869	8211	40125			OUSD	Lower Santa Ana River
LUTHERAN HIGH SCHOOL	2222	N	SANTIAGO	BLVD		92867	8211	62009	-117.82769141300	33.82531148640	Roger Burtner	Lower Santa Ana River
ORANGE HIGH SCHOOL	525	N	SHAFFER	ST		92867	8211	40128			OUSD	Lower Santa Ana River
EL MODENA HIGH SCHOOL	3920	E	SPRING	ST		92869	8211	40127	-117.81335606000	33.79109749140	OUSD	Lower Santa Ana River

Sub-Total = 9

<b>5411 GROCERY STORES</b>												
FRESH & EASY NEIGHBORHOOD MARKET	1803	E	CHAPMAN	AVE		92867	5411	127620	-117.83484450700	33.78807675330	Tim Mason	Lower Santa Ana River
RALPH'S GROCERY COMPANY #148	2620	E	CHAPMAN	AVE		92869	5411	89998			Michael Donnelly	Lower Santa Ana River
STATER BROS. MARKETS #165	3325	E	CHAPMAN	AVE		92869	5411	96702			Phillip J Smith	Lower Santa Ana River
LA SABROSA MARKET	4004	E	CHAPMAN	AVE	#B	92869	5411	131827	-117.81129078000	33.78728833100	Fernando R & G Tinajero	Lower Santa Ana River
ALBERTSONS	4550	E	CHAPMAN	AVE		92869	5411	119132	-117.80464607300	33.78743169310	New Albertsons Inc	Lower Santa Ana River
LA CARRETA MARKET	4637	E	CHAPMAN	AVE		92869	5411	118195	-117.80385468700	33.78790612480	Maria E Navarro	Lower Santa Ana River
PACIFIC RANCH MKT	7540	E	CHAPMAN	AVE		92869	5411	156611			Jeff Walker	Lower Santa Ana River
ALBERTSONS #6551	8440	E	CHAPMAN	AVE		92869	5411	119131	-117.76340210000	33.79172856570	New Albertsons Inc	Lower Santa Ana River
RALPH'S GROCERY COMPANY #8	1435	W	CHAPMAN	AVE		92868	5411	103440			Michael Donnelly	Lower Santa Ana River
EL FARO MARKET CARNICERIA #3	1701	W	CHAPMAN	AVE		92868	5411	106527	-117.87069998000	33.78801503990	Saul O Aguilar	Lower Santa Ana River
CIRCLE S FOOD STORE	2310	W	CHAPMAN	AVE		92868	5411	128255	-117.87726542500	33.78757111730	Avinder S Chawla	Lower Santa Ana River
STATER BROS. MARKET #28	1800	E	COLLINS	AVE		92867	5411	9146			Jack H Brown	Lower Santa Ana River
ABC MARKET	918	N	GLASSELL	ST	#C	92867	5411	90459	-117.85344711100	33.80265349460	Richard T Ha	Lower Santa Ana River
EL RANCHO MARKET	1095	N	GLASSELL	ST		92867	5411	116804	-117.85287182400	33.80579109280	Mahir Gammo	Lower Santa Ana River
K & B MARKET	481	S	GLASSELL	ST		92866	5411	128373	-117.85287686400	33.78091190610	Maher Albalut	Lower Santa Ana River
JK FOOD STORE	492	N	TUSTIN	ST		92867	5411	105763	-117.83612356300	33.79483844160	Mulaku Raj	Lower Santa Ana River
LA REINA MARKET #2	909	N	TUSTIN	ST		92867	5411	117029	-117.83541276000	33.80246047680	Daniel Rubalcava	Lower Santa Ana River
ALBERTSON'S #6534	940	N	TUSTIN	ST		92867	5411	119130	-117.83589235300	33.80307145440	American Stores Co LLC	Lower Santa Ana River
EL RUBIOS CARNICERIA	1889	N	TUSTIN	ST		92865	5411	109475	-117.83473050900	33.81899503800	Filiberto L & M H Gonzale	Lower Santa Ana River
TRADER JOE'S #46	2114	N	TUSTIN	ST		92865	5411	84693			Dan Bane	Lower Santa Ana River
THE VONS COMPANIES INC #2335	2684	N	TUSTIN	ST		92865	5411	56663			Steven A Burd	Lower Santa Ana River
LA MORENITA MARKET	4304	E	WASHINGTON	AVE		92869	5411	8630	-117.80767929400	33.78612772380	Gracilla Sanchez	Lower Santa Ana River

Sub-Total = 22

<b>5499 MISC FOOD STORES</b>												
WATER GOURMET	3421	E	CHAPMAN	AVE		92869	722211	154918	-117.81644	33.787789	Greg Adler	Lower Santa Ana River
CARNICERIA EL TORITO	3848	E	CHAPMAN	AVE	#B,C	92869	5499	112631	-117.81225599900	33.78723416510	Margarito A Flores	Lower Santa Ana River
EVERFRESH	3904	E	CHAPMAN	AVE		92869	5999	87304	-117.81196670800	33.78747048620	Tin Q Nguyen	Lower Santa Ana River
7-ELEVEN #2172-26764B	4427	E	CHAPMAN	AVE		92869	5499	118382	-117.80617914400	33.78790271940	Steve Mannickarottu	Lower Santa Ana River
7-ELEVEN	4045	W	GARDEN GROVE	BLVD	D	92868	5499	124732	-117.89711163400	33.77487806890	Anna Pattaphongse	GG-WINTERBURG
LICATA'S NUTRITION CENTER	162	N	GLASSELL	ST		92866	5499	62922	-117.85331038100	33.78947178950	Thomas A Licata	Lower Santa Ana River
7-ELEVEN #2172-17923F	1679	N	GLASSELL	ST		92867	5499	59860	-117.85275038300	33.81543131350	Hamid R Sharifinejad	Lower Santa Ana River
ED'S CHEVRON 1	105	E	KATELLA	AVE		92867	5499	97507	-117.85255395200	33.80928115870	Chevron Station Inc	Lower Santa Ana River
7-ELEVEN #2172-19969B	290	S	MAIN	ST		92868	5499	116496	-117.86769751600	33.78417702360	Jagdev Bisla	Lower Santa Ana River

City of Orange  
Commercial Inventory 20011-2012

EL METATE MARKET	125	N	RANCHO SANTIAGO	BLVD		92869	5499	87412	-117.80117866300	33.78831639200	Rudy Murrieta	Lower Santa Ana River	
HONEY BAKED HAM	1419	N	TUSTIN	ST	B	92867	5499	37957	-117.83557814500	33.81084869640	Meredith P Deak	Lower Santa Ana River	

Sub-Total = 11

<b>5921 LIQUOR STORES</b>													
ORANGE HILL MARKET	4740	E	CHAPMAN	AVE		92869	5921	103583			Shajee Mathew	Lower Santa Ana River	
RODS LIQUOR #1	118	W	CHAPMAN	AVE		92866	5921	8848			Roderick A Fraser II	Lower Santa Ana River	
ABC LIQUOR #14	4029	W	CHAPMAN	AVE		92868	5921	72417			Ellis Y & Myung-Jin Cha	Lower Santa Ana River	
HOOVES MARKET	493	N	GLASSELL	ST		92866	5921	121440	-117.85268846500	33.79484961490	Gholwan Mechammil	Lower Santa Ana River	
HAPPY LIQUOR & DELI	140	E	TAFT	AVE		92865	5921	95222	-117.85188056200	33.81555166480	Ja & Dirk Key Du	Lower Santa Ana River	
BEVERAGES & MORE	2000	N	TUSTIN	ST		92865	5921	104258	-117.83636431600	33.82126279770	James Simpson	Lower Santa Ana River	
KC LIQUOR	296	S	TUSTIN	ST		92866	5921	108867	-117.83605314800	33.78435768070	Young Hwa Chung	Lower Santa Ana River	
WINE EXCHANGE	1500	E	VILLAGE	WY	#2364	92865	5921	35565			Steve & C Zanott	Lower Santa Ana River	

Sub-Total=8

<b>OTHER FOOD STORES</b>													
MATTERN SAUSAGE	4327	E	CHAPMAN	AVE		92869	2013	35379	-117.80726754100	33.78790811930	Wm & Anna Mattern	Lower Santa Ana River	
C F I DISTRIBUTORS	296	N	CYPRESS	ST		92866	5149	130945			Heubert J Martinez	Lower Santa Ana River	
SMITH'S NUT HOUSE	774	N	TUSTIN	ST		92867	5441	8248			Edgar E Smith	Lower Santa Ana River	
PRODUCE WORLD	1885	N	TUSTIN	ST		92865	5431	26304			Mickey Nagayama	Lower Santa Ana River	
LA BODEGA MARKET	259	S	TUSTIN	ST		92866	5149	114657	-117.83528244900	33.78500551530	Malik Tabel	Lower Santa Ana River	

Sub Total=5

<b>HOSPITALS</b>													
CHAPMAN MEDICAL CENTER	2601	E	CHAPMAN	AVE		92869	8062	115444	-117.82642652500	33.78813213190	Larry B Anderson		
CHILDREN'S HOSPITAL OF ORANGE COUNTY	455	S	MAIN	ST	#A	92868	8069	24900	-117.86711430200	33.78084089970	Children's Healthcare of CA		
SAINT JOSEPH HOSPITAL	1100	W	STEWART	DR		92868	8062	27418			Curt Zimmer		
HEALTH BRIDGE CHILDREN'S	393	S	TUSTIN	ST		92866	8011	96387	-117.83553833400	33.78261520520	Stacy J Krogman		

Sub-Total = 4

<b>BAKERIES</b>													
OC BAKING COMPANY	540	W	FREEDOM	AVE		92865	2050	133453			Dean Kim		
ROCKWELLS CREATIVE GOURMET CAKES	145	N	LEMON	ST		92866	2050	127813			Martin J Colleary		
ABC CAKE DECORATING SHOPPE &	429	N	TUSTIN	ST		92867	5461	107595	-117.89666103700	33.78912555400	Mary L Ayer		
POUL'S BAKERY	770	N	TUSTIN	ST		92867	2050	69927			Fred M Hyde		
FRENCHS PASTRY BAKERY	2068	N	TUSTIN	ST		92865	2050	110040	-117.83737343000	33.82229371240	Manuel D & M I Gonzalez		
ALDO'S SANDWICHES	2697	N	ORANGE OLIVE	RD		92865	722211	154355			Sofia Prado		
C & E BAKERY	2703	N	ORANGE OLIVE	RD		92865	2050	114488			Leah N Kochi		

Sub-Total = 7

<b>8051 SKILLED NURSING</b>													
LA VETA HEALTHCARE CENTER	920	W	LA VETA	AVE		92868	8051	92412	-117.86211208100	33.77934443310	Bruce W Lunsford		
FOUNTAIN CARE CENTER	1835	W	LA VETA	AVE		92868	8051	112079	-117.87232826300	33.78049484970	Fountain Care Center LLC		

Sub-Total= 2

<b>PROCESSING PLANT (UNPKG) 2000-5999 SQ FT</b>													
K H FOOD CORPORATION	625	W	KATELLA	AVE	#14	92867	5149	92714	-117.85933494100	33.80922231590	Robert KH Ju		

Sub-Total = 1

<b>PROCESSING PLANT (UNPKG) 6000-29999 SQ FT</b>													
SQUARE PEGS	987	N	ENTERPRISE	ST		92867	311812	155808	-117.86478605300	33.80411432430	Dawn Graham		

Sub-Total = 1

<b>PROCESSING PLANT (UNPKG) 30000+ SQ FT</b>													
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Sub-Total = 0

<b>USDA PROCESSING PLANT 6000-29999 SQ FT</b>													
PARMA FRUIT INC	987	N	ENTERPRISE	ST		92867	5148	134592			Gary L Lutes	Lower Santa Ana River	Low
MATTERN SAUSAGE, INC.	1003	N	PARKER	ST		92867	6519	94563	-117.85967330000	33.80420494280	Wm & Anna Mattern	Lower Santa Ana River	Low

Sub-Total = 2

<b>MOBILE CARPET, DRAPE OR FURNITURE CLEANING</b>													
BATAVIA FURNITURE REFINISHING	1210	N	BATAVIA	ST	A	92867	7641	128932	-117.86205619100	33.80806301120	John R Sullivan	Lower Santa Ana River	Low
EXCEL CARPET CLEANING CO	3308	E	CASSELLE	AVE		92869	7217	74895	-117.81807151300	33.77612002200	Enrique C Escutia	San Diego Creek	Low
ESTES ENTERPRISES	3913	E	EUCLID	AVE		92869	7217	91667	-117.81158833000	33.79447345600	Consuelo & F Martinez	Lower Santa Ana River	Low
SAFARI CARPET CARE	2440	E	LOCUST	AVE		92867	2273	116020			William S Bland	Lower Santa Ana River	Low
CARPET BEATERS	1360	N	MANZANITA	ST	H	92867	7217	102322	-117.85880528500	33.81009095830	Darren W Whitley	Lower Santa Ana River	Low

Sub-Total = 6

<b>MOBILE HIGH PRESSURE OR STEAM CLEANING</b>													
<b>1721 PAINTING &amp; PAPER HANGING</b>													
MEYER COATINGS INC	606	N	ECKHOFF	ST		92868	1721	106791	-117.87438373900	33.79673066680	Scott D Meyer	Lower Santa Ana River	Low
STEGEER INC	1938	N	BATAVIA	ST	L	92865	1721	81726			Michael Steger	Lower Santa Ana River	Low
D & M PAINTING	1318	W	COLLINS	AVE		92867	1721	116769	-117.86697543100	33.80157127910	Dennis Montgomery	Lower Santa Ana River	Low
NORM'S PAINTING	1739	W	KATELLA	AVE		92867	1721	54292			Norman Johnson	Lower Santa Ana River	Low
MEYER PAINTING & CONTRACTING CO	979	N	MAIN	ST		92867	1721	56880	-117.86646389800	33.80384499220	Rick A Meyer	Lower Santa Ana River	Low



City of Orange  
Commercial Inventory 20011-2012

PRECISION PAINTING & CONTRACTING	634	N	POPLAR	ST	N	92868	1721	7138			Donald Dresel	Lower Santa Ana River	Low
						Sub- Total = 7							
5193 FLOWERS/NURSERY STOCK/FLORIST SUPPLIES													
CAMBRIDGE PINES NURSERY	1550	N	CAMBRIDGE	ST		92867	5193	29854	-117.84568020500	33.81289415060	Edward I Hofmayer Jr	Lower Santa Ana River	Medium
TUSTIN MEADOWS NURSERY	815	S	ESPLANADE	ST		92869	5193	62351			Joe Grumbles	San Diego Creek	Medium
MONTOYAS WHOLESALE NURSERY #2	1184	N	HEWES	ST		92869	181	130727	-117.801273	33.1273	Jaime Vargas	Santiago Creek	High
LAS FLORES NURSERY	3606	E	MEATS	AVE		92865	5193	67214	-117.81530850800	33.82867894200	Efrain & A Hernandez	Lower Santa Ana River	Medium
NITAO NURSERY INC	2333	E	TAFT	AVE		92867	5193	39848/114782			David K Nitao	Lower Santa Ana River	High
						Sub- Total = 4							
5261 RETAIL NURSERIES, LAWN/GARDEN SUPPLY STORES													
ORANGE COUNTY FARM SUPPLY	1826	W	CHAPMAN	AVE		92868	5261	8178			Joyce Roy	Lower Santa Ana River	Medium
ANAHEIM WHOLESALE NURSERY	1550	N	GLASSELL	ST		92867	5261	92533	-117.85333729700	33.81284775820	Rod W Lloyd	Lower Santa Ana River	Medium
GREEN MART	400	W	LINCOLN	AVE		92865	5261	70261	-117.85634213200	33.83493067230	Tasen Chou	Lower Santa Ana River	Medium
BLUE RIBBON NURSERY & LANDSCAPE SUPPL	1425	N	SANTIAGO	BLVD		92869	5261	78168	-117.79784007400	33.81109818470	Barry D Rodieck	Lower Santa Ana River	Medium
UPLAND NURSERY INC	1518	N	TUSTIN	ST		92867	5261	117942			Jerry Hsu	Lower Santa Ana River	Medium
VILLAGE NURSERIES	1582	N	TUSTIN	ST		92867	5261	59277			Baldwin & Baldwin	Lower Santa Ana River	High
WHOLESALE NURSERY	1511	N	MAIN	ST								Lower Santa Ana River	Medium
						Sub- Total = 6							
LANDSCAPE AND HARDSCAPE INSTALLATIONS													
V & E LANDSCAPE & MAINTENANCE	2425	N	BATAVIA	ST		92867	1799	10239			Victor Eggers	Lower Santa Ana River	Low
FEATHERHILL NURSERY	2932	E	STONE PINE	RD		92867	1799	30120	-117.82225663000	33.82661992360	Thomas W Feldner	Lower Santa Ana River	Low
LAS FLORES LANDSCAPE INC	2336	N	BATAVIA	AVE		92865	238990	119075			Joel Hamby	Lower Santa Ana River	Low
						Sub- Total = 3							
POOL, LAKE AND FOUNTAIN CLEANING													
ORANGE PARK POOL SUPPLY INC	2740	E	CHAPMAN	AVE		92869	1799	99054			Christy Kobetsky	Lower Santa Ana River	Low
LESLIE'S SWIMMING POOL SUPPLIES	3444	E	CHAPMAN	AVE		92869	5999	62462	-117.81640056900	33.78706762960	Lawrence H Hayward	Lower Santa Ana River	Low
MACRI VINYL POOLS	170	W	CITY	BLVD		92868	1799	108237	-117.89613444700	33.78437828550	Kerry Mciri	Bolsa Chica	Low
HARRIS POOL	204	E	EMERSON	AVE		92865	7699	97136	-117.85184232400	33.82434266430	Raymond G Harris	Lower Santa Ana River	Low
UNIVERSAL LABORATORIES	692	N	CYPRESS	ST	B	92867	7389	71290			Pamela A Ogier	Lower Santa Ana River	Low
EMS CIRCUIT LABS INC	2404	N	GLASSELL	ST		92865	8734	105794	-117.85335029300	33.82792492350	James Economus	Lower Santa Ana River	Low
AQUATRENDS POOL SERVICE	723	N	HARITON	AVE		92867	1799	84332	-117.85794409900	33.79910836330	Lewis Hines	Lower Santa Ana River	Low
ORANGE POOL SUPPLY & SERVICE	730	N	TUSTIN	ST		92867	5999	104257			Bradley L Gaston	Lower Santa Ana River	Low
7210 LAUNDRY,CLEANING,AND GARMENT SERVICES													
TIP TOP CLEANERS	3534	E	CHAPMAN	AVE		92869	7210	128371			Daven A Patel	Lower Santa Ana River	Low
V I P CLEANERS	4010	E	CHAPMAN	AVE	E	92868	7210	122644			Sung Chul Cho	Lower Santa Ana River	Low
VILLA PARK CLEANERS	4523	E	CHAPMAN	AVE		92869	7210	114839			Young Hwan Cho	Lower Santa Ana River	Low
ORANGE CLEANERS	1437	W	CHAPMAN	AVE		92868	7210	115340			In Yong Na	Lower Santa Ana River	Low
BRICKYARD CENTER CLEANERS	1691	E	LINCOLN	AVE		92865	7210	62171	-117.83654138700	33.83599193620	Bong S Kang	Lower Santa Ana River	Low
						Sub- Total = 13							
PEST CONTROL SERVICE FACILITIES													
ORANGE EXTERMINATORS	982	N	BATAVIA	ST	B	92868	7342	126945			Ryan Berry	Lower Santa Ana River	Low
GUARDIAN PEST SERVICES INC	1407	N	BATAVIA	ST		92867	7342	126427			Walter O Peterson	Lower Santa Ana River	Low
TERMINIX INTERNATIONAL CO	1578	N	BATAVIA	ST		92867	7342	11758			Terminix International LP	Lower Santa Ana River	Low
TERMITE SOLUTIONS	1336	W	COLLINS	AVE		92867	7342	126001			Sergio Rodriguez	Lower Santa Ana River	Low
ENVIRO-CARE PEST & TERMITE CONTROL INC	318	W	KATELLA	AVE	B	92867	7342	113901			Geoffrey M Vint	Lower Santa Ana River	Low
TRUMP PEST CONTROL INC	438	W	MEATS	AVE		92865	7342	121578			Charles J Wadleigh	Lower Santa Ana River	Low
JEFF HIATT INC TERMITE PROFESSIONALS	1500	E	VILLAGE	WAY		92865	7342	124620			Jeff Hiatt	Lower Santa Ana River	Low
						Sub-Total = 7							
ANIMAL FACILITIES (BOARDING/TRAINING)													
SHALEEN KENNELS	2299	N	BATAVIA	ST		92865	812910	113280			Richard & Jacki L Forkel	Lower Santa Ana River	Low
PETOPIA PET RESORT	2417	N	BATAVIA	ST		92865	752	115179			Eric R Cramer	Lower Santa Ana River	Low
COAST CANINE RESORT RANCH	606	W	COLLINS	AVE		92867	752	91165			William T Burns	Lower Santa Ana River	Low
CANINE CARE CASTLE/SANDMAN'S CS	618	W	COLLINS	AVE		92867	752	98900			Michael R Sandman	Lower Santa Ana River	Low
ORANGE VILLA VETERINARY HOSPITAL	1826	N	TUSTIN	ST		92865	541940	10929			Richard E Dahlem	Lower Santa Ana River	Low
						Sub-Total = 5							
GOLF COURSES													
SUPER SPORTS GOLF & RECREATION CENTER	2190	N	CANAL	ST		92865	7999	81145			Terada & Hawkins	Lower Santa Ana River	Low
						Sub-Total = 1							
Other sites determined to be significant contributors													
CARLAB DEVELOPMENT LLC	714	W	ANGUS	AVE	A	92868	4226	122329	-117.85988975900	33.79855229960	Eric Noble	Lower Santa Ana River	Low
L & S CONSTRUCTION INC.	674	N	BATAVIA	ST		92868	1521	75887	-117.86294183300	33.79863114480	William Larkin	Lower Santa Ana River	Low
THE WOODSHED	1015	N	BATAVIA	ST		92867	5211	120294	-117.860997	33.804634	Michael Sharp	Lower Santa Ana River	Low
CHRISTIAN BUILDING MATERIALS, INC	1841	N	BATAVIA	ST		92865	5039	111720	-117.86187852800	33.81798919020	Roger S Johnson	Lower Santa Ana River	Low
24/7 YELLOW CAB & C R AUTOMOTIVE	2192	N	BATAVIA	ST		92865	4121/5511	17918/118512	-117.86243300000	33.82471822510	Konstantinos Roditis	Lower Santa Ana River	Medium
PACIFIC HIGHREACH	1604	W	COLLINS	AVE		92867	7359	112706	-117.869613	33.80208	Jeff M Davis	Lower Santa Ana River	Medium

City of Orange  
Commercial Inventory 20011-2012

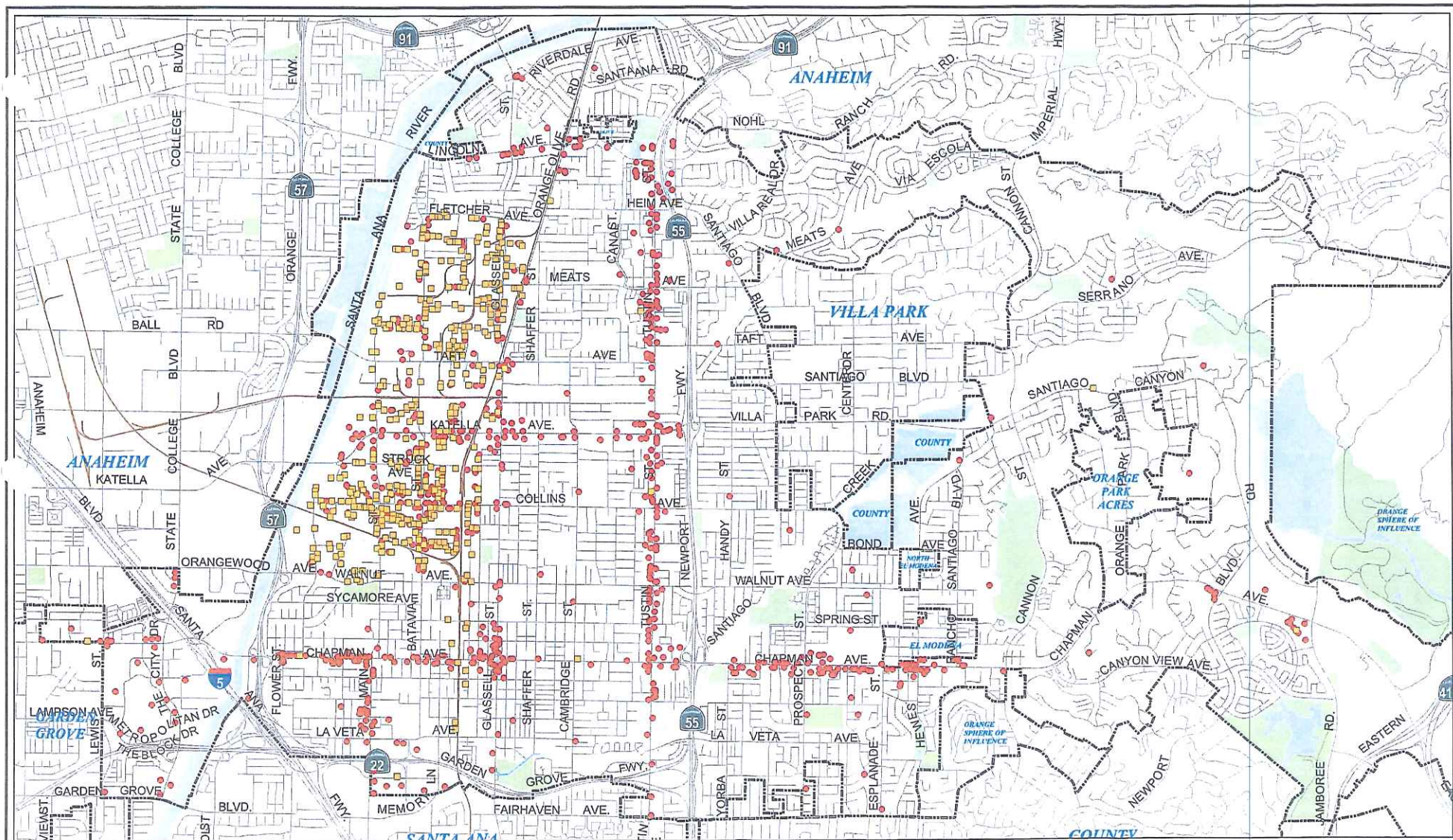
TRIPLE "A" PUMPING & JETTING INC	764	N	CYPRESS	ST		92867	7389	124015	-117.85684200000	33.79991800000	Ronald D Taylor	Lower Santa Ana River	Medium
HI STANDARD AUTOMOTIVE	1110	W	BARKLEY	AVE		92868	3714	130050			George M Vasilj	Lower Santa Ana River	Low
STRATAGEMICS	1225	W	BARKLEY	AVE		92868	3714	131663			Stephen B Laburn	Lower Santa Ana River	Low
T F PERFORMANCE	1225	W	BARKLEY	AVE		92868	3714	131177			Tommy A Faust	Lower Santa Ana River	Low
PACIFIC WROUGHT IRON INC	601	N	BATAVIA	ST		92868	7359	133539			Todd M Essenmacher	Lower Santa Ana River	Low
ROBERT BOS ENTERPRISES	973	N	BATAVIA	ST		92867	3750	125363			Robert K Bos Jr	Lower Santa Ana River	Low
WINKS CUSTOM CYCLES	982	N	BATAVIA	ST	A3	92867	3751	133458			Ray A Eller Jr	Lower Santa Ana River	Low
PAPER MART	2164	N	BATAVIA	ST		92865	5110	134269			Thomas Frick	Lower Santa Ana River	Low
DYNO DAVES	2199	N	BATAVIA	ST	L	92865	3750	123653	-117.86190763900	33.82464793710	David G Oakes	Lower Santa Ana River	Low
KING'S CYCLE	2199	N	BATAVIA	ST	L	92865	3750	132851			Mark Robertson	Lower Santa Ana River	Low
COSMO FLEET SERVICE	2199	N	BATAVIA	ST	R	92865	811198	153689			Cosmin Chicintan	Lower Santa Ana River	Low
HUBCAP MIKE	2465	N	BATAVIA	ST		92865	2396	95436	-117.86168891900	33.82909684810	Michael A Collins	Lower Santa Ana River	Medium
DIVERSIFIED METALWORKS	332	W	BRENNA	LN		92867	1799	62888			John E Ferguson	Lower Santa Ana River	Low
CLEVELAND MARBLE LP	219	E	BRISTOL	LN		92865	1799	123259	-117.85146448900	33.82693440860	Elias N Ghattas	Lower Santa Ana River	Low
RICK HAMM CONSTRUCTION INC	201	W	CARLETON	AVE		92865	1771	25108			Richard M Hamm	Lower Santa Ana River	Low
CERTIFIED ART SUPPLY/DUNCAN-VAIL	1437	W	COLLINS	AVE		92867	5198	134450			Sara M Smith	Lower Santa Ana River	Low
CRANE RENTAL SERVICE INC	1901	W	COLLINS	AVE		92867	7353	11106	-117.87272168500	33.80257145330	William C Foster	Lower Santa Ana River	Medium
CORRECT PERFORMANCE ACCESSORIES	950	N	ELM	ST		92867	423120	155462			Michael Clinger	Lower Santa Ana River	Low
R & R MARINE SERVICES	969	N	ENTERPRISE	ST		92867	3732	132826			Lisa Stevens	Lower Santa Ana River	Low
EDLOU ENTERPRISES LLC	240	W	FLETCHER	AVE		92865	7359	132562			Cindy L Baker	Lower Santa Ana River	Low
AMERICAN GLASS INDUSTRIAL INC	1105	N	GLASSELL	ST		92867	3231	118937	-117.85290079400	33.80616449110	Atef N Kamel	Lower Santa Ana River	Low
ARCO GUNITE INC	1448	N	GLASSELL	ST		92867	1799	14098	-117.85475482800	33.81135961040	Basil D Norton	Lower Santa Ana River	Low
HORIZON	412	W	LEVERS	PL		92867	5046	108066	-117.85599831200	33.81350030600	James W Ross	Lower Santa Ana River	Low
SUNBELT RENTALS	1170	N	MAIN	ST		92867	7353	116588			Suzanne Woods	Lower Santa Ana River	Medium
AIR PRO SUPPLY INC	1814	N	NEVILLE	ST		92863	5074	109266	-117.85732405700	33.81775551850	Michael D Lanphere	Lower Santa Ana River	Low
POWER EQUIPMENT	1603	N	O'DONNELL	WY		92867	7359	134443			Tamara Davis	Lower Santa Ana River	Low
ALL ACCESS EQUIPMENT RENTALS	2314	N	PACIFIC	AVE		92865	7359	133269			Kevein J Aylesworth	Lower Santa Ana River	Medium
BUSTYOURCARB.COM LLC	624	N	POPLAR	ST	N	92868	2890	134398			Nabil Abouriche	Lower Santa Ana River	Low
INTELLI POWER INC	1746	N	ST THOMAS	CIR		92865	3568	120964	-117.85631482900	33.81650271920	G W Bill Shipman	Lower Santa Ana River	Low
CLASSIQUE LIMOUSINES	1227	W	TRENTON	AVE		92867	4119	107815	-117.86539176500	33.81110058930	Kevin J Illingworth	Lower Santa Ana River	Low
SAM'S LAWNMOWER	1621	E	WALNUT	AVE		92867	444211	104944	-117.836454	33.795276	Samuel Ramirez	Lower Santa Ana River	Low
WINDWARD LEASING LLC	520	W	WALNUT	AVE		92868	7353	133728			Michael J Potter	Lower Santa Ana River	Low

Sub total = 957

## Exhibit A-9.I

GIS Map of Industrial & Commercial Locations





**CITY OF ORANGE**

300 E CHAPMAN AVE  
ORANGE, CALIFORNIA 92866

- Legend**
- Industrial Inventory
  - Commercial Inventory

**N.P.D.E.S.**

**Commercial and Industrial Inspection Inventory 2009-10**



0 750 1,500 3,000 4,500 6,000  
Feet



Map prepared by:  
Public Works GIS Section  
on September 20th, 2010

## Exhibit A-9.II

Industrial/ Commercial BMP Fact Sheets

## IC1. AIRPLANE MAINTENANCE AND REPAIR

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Only conduct maintenance or repair work in designated areas.
  2. Utilize dry cleanup methods (i.e. sweeping), try to avoid washing down work areas.
  3. Use drip pans and/or containers where needed.
  4. Inspect airplanes for leaks.
  5. Dispose of all waste products properly and recycle whenever possible.
  6. Paint signs near outdoor drains and post signs at sinks to remind employees and others not to pour wastes down storm drains.
  7. Clean storm drain inlet(s) on a regular schedule and after large storms.
  8. Store idle equipment under cover.
  9. Keep equipment clean and free of excessive oil and grease.
  10. Completely drain oil filters before recycling/disposal.
  11. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
- OPTIONAL:
12. Use non-toxic chemicals for maintenance when possible.
  13. Minimize the use of solvents.

### Best Management Practices

1. **Only conduct maintenance or repair work in designated areas.**
  - Conduct maintenance and repair work in a designated area with spill containment.
  - Construct a berm or intercept trench at doorways to prevent stormwater runoff as well as the runoff of uncontaminated stormwater from adjacent areas.
2. **Utilize dry cleanup methods (i.e. sweeping), try to avoid washing down work areas.**
  - If work areas are washed and if discharge to the sanitary sewer is allowed treat water with an appropriate treatment device (e.g. clarifier) before discharging. **DO NOT** discharge wash water to sanitary sewer until contacting the local sewer authority to find out if pretreatment is required.
  - If discharge to the sanitary sewer is not permitted, pump water to a tank and dispose of properly.
3. **Use drip pans and/or containers where needed.** Keep a drip pan or container under the airplane when unclipping hoses, unscrewing filters, or conducting other maintenance and repair work that may result in fluids dripping or splattering onto the shop floor or ground.
4. **Inspect airplanes for leaks.**
  - Inspect incoming airplanes for leaks.
  - Inspect airplanes for leaks during regular maintenance; keep records.
5. **Dispose of all waste products properly and recycle whenever possible.**
  - Promptly transfer waste materials to the proper waste or recycling drums.
  - Store waste and/or recycling drums in designated areas with spill containment.



- Separate hazardous and non-hazardous wastes, do not mix used oil and solvents and keep chlorinated solvents separate from non-chlorinated solvents.

**OPTIONAL:**

- Recycle greases, used oils, oil filters, antifreeze, cleaning solutions, batteries, and hydraulic and transmission fluids whenever possible.
- 6. Paint signs near outdoor drains and post signs at sinks to remind employees and others not to pour wastes down storm drains.**
  - 7. Clean storm drain inlet(s) on a regular schedule and after large storms.**
  - 8. Store idle equipment under cover.**
  - 9. Keep equipment clean and free of excessive oil and grease.**
  - 10. Completely drain oil filters before recycling/disposal.**
  - 11. Training**
    - 1. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
    - 2. Train employees on proper spill containment and cleanup.**
      - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
      - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
      - BMP IC17 discusses Spill Prevention and Control in detail.
    - 3. Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
    - 4. Use a training log or similar method to document training.**

**OPTIONAL:**

- 12. Use non-toxic chemicals for maintenance when possible.**
- 13. Minimize the use of solvents.**

**References**

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. King County Surface Water Management. July 1995. On-line: <http://dnr.metrokc.gov/wlr/dss/spcm.htm>

Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July 1998 (Revised February 2002 by the California Coastal Commission).

Stormwater Management Manual for Western Washington. Volume IV Source Control BMPs. Prepared by Washington State Department of Ecology Water Quality Program. Publication No. 99-14. August 2001.

**For additional information contact:**

City of Orange  
Public Works Department – Surface Water Quality  
714-532-6480  
or visit our website:  
[www.cityoforange.org](http://www.cityoforange.org)



## IC2. ANIMAL HANDLING AREAS

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Use dry cleaning methods to clean animal handling areas regularly.
2. Properly collect and dispose of water when water is used for cleaning.
3. Keep animals in paved and covered areas, if feasible.
4. If keeping animals in covered areas is not feasible, cover the ground with vegetation or some other type of ground cover such as mulch.
5. Prevent animals from moving away from controlled areas where BMPs are in use (e.g. fencing, leashing, etc.). Clean storm drain inlet(s) on a regular schedule and after large storms.
6. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

### Best Management Practices

1. **Use dry cleaning methods to clean animal handling areas regularly.**
  - Sweeping animal handling areas is encouraged over other methods.
  - Properly dispose of droppings, uneaten food, and other potential contaminants.
2. **If water is used for cleaning:**
  - Do not discharge wash water to storm water drains or other receiving waters.
  - Block the storm drain or contain runoff.
  - Wash water should be collected and pumped to the sanitary sewer, do not allow wash water to enter storm drains. **DO NOT** discharge wash water to sanitary sewer until contacting the local sewer authority to find out if pretreatment is required.
3. **Keep animals in paved and covered areas, if feasible.**
4. **If keeping animals in covered areas is not feasible, cover the ground with vegetation or some other type of ground cover such as mulch.**
5. **Prevent animals from moving away from controlled areas where BMPs are in use (e.g. fencing, leashing, etc.).**
6. **Training**
  1. **Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
  2. **Train employees on proper spill containment and cleanup.**
    - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.

- Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
- 3. Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
  - 4. Use a training log or similar method to document training.**

## **References**

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. King County Surface Water Management. July 1995. On-line: <http://dnr.metrokc.gov/wlr/dss/spcm.htm>

Stormwater Management Manual for Western Washington. Volume IV Source Control BMPs. Prepared by Washington State Department of Ecology Water Quality Program. Publication No. 99-14. August 2001.

## **For additional information contact:**

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## IC3. BUILDING MAINTENANCE

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Properly collect and dispose of water when pressure washing buildings, rooftops, and other large objects.
2. Properly prepare work area before conducting building maintenance.
3. Properly clean and dispose of equipment and wastes used and generated during building maintenance.
4. Employ soil erosion and stabilization techniques when exposing large areas of soil.
5. Store toxic material under cover when not in use and during precipitation events.
6. Properly dispose of fluids from air conditioning, cooling tower, and condensate drains.
7. Regularly inspect air emission control equipment under AQMD permit.
8. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

#### OPTIONAL:

9. Switch to non-toxic chemicals for maintenance when possible.
10. Use chemicals that can be recycled.

### Best Management Practices

1. **Properly collect and dispose of water when pressure washing buildings, rooftops, and other large objects.**
  - If pressure washing where the surrounding area is paved, use a water collection device that enables collection of wash water and associated solids. Use a sump pump, wet vacuum or similarly effective device to collect the runoff and loose materials. Dispose of the collected runoff and solids properly.
  - If pressure washing on a grassed area (with or without soap), runoff must be dispersed as sheet flow as much as possible, rather than as a concentrated stream. The wash runoff must remain on the grass and not drain to pavement.
2. **Properly prepare work area before conducting building maintenance.**
  - Use ground or drop cloths underneath outdoor painting, scraping, and sandblasting work, and properly dispose of collected material daily.
  - Use a ground cloth or oversized tub for activities such as paint mixing and tool cleaning.
  - Use a storm drain cover, filter fabric, or similarly effective runoff control mechanism if dust, grit, wash water, or other pollutants may escape the work area and enter a storm drain.

**3. Properly clean and dispose of equipment and wastes used and generated during building maintenance.**

- Clean paint brushes and tools covered with water-based paints in sinks connected to sanitary sewers or in portable containers that can be dumped into a sanitary sewer drain. Brushes and tools covered with non-water-based paints, finishes, or other materials must be cleaned in a manner that enables collection of used solvents (e.g., paint thinner, turpentine, etc.) for recycling or proper disposal.
- Properly dispose of wash water, sweepings, and sediments.
- Properly store equipment, chemicals, and wastes.
- Do not dump any toxic substance or liquid waste on the pavement, the ground, or toward a storm drain.

**OPTIONAL:**

- Recycle residual paints, solvents, lumber, and other materials to the maximum extent practicable

**4. Employ soil erosion and stabilization techniques when exposing large areas of soil.**

- Confine excavated materials to pervious surfaces away from storm drain inlets, sidewalks, pavement, and ditches. Material must be covered if rain is expected.
- Use chemical stabilization or geosynthetics to stabilize bare ground surfaces.

**5. Store toxic material under cover when not in use and during precipitation events.**

**6. Properly dispose of fluids from air conditioning, cooling tower, and condensate drains.**

**7. Regularly inspect air emission control equipment under AQMD permit.**

**8. Training**

**1. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**

**2. Train employees on proper spill containment and cleanup.**

- Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
- Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
- BMP IC17 discusses Spill Prevention and Control in detail.

**3. Establish a regular training schedule, train all new employees, and conduct annual refresher training.**

**4. Use a training log or similar method to document training.**

**OPTIONAL:**

**9. Switch to non-toxic chemicals for maintenance when possible.**

- If cleaning agents are used, select biodegradable products whenever feasible
- Consider using a waterless and non-toxic chemical cleaning method for graffiti removal (e.g. gels or spray compounds).

**10. Use chemicals that can be recycled.**

- Buy recycled products to the maximum extent practicable

## References

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. King County Surface Water Management. July 1995. On-line: <http://dnr.metrokc.gov/wlr/dss/spcm.htm>

Stormwater Management Manual for Western Washington. Volume IV Source Control BMPs. Prepared by Washington State Department of Ecology Water Quality Program. Publication No. 99-14. August 2001.

### For additional information contact:

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Public Works Department – Surface Water Quality  
714-532-6480  
or visit our website:  
[www.cityoforange.org](http://www.cityoforange.org)

## IC4. CARPET CLEANING

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

Discharge wash water to sink, toilet, or other drain connected to the sanitary sewer system.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

### Best Management Practices

#### **Discharge wash water to sink, toilet, or other drain connected to the sanitary sewer system.**

- Never discharge wash water to a street, gutter, parking lot, or storm drain. Either:
  - empty the spent cleaning fluid tank into a utility sink or other indoor sewer connection at the service provider's home base
  - or
  - arrange with the customer to discharge into a toilet or utility sink on their premises.
- Check the local wastewater authority's requirements for discharge.
- Filter wash water before discharging to the sanitary sewer to avoid clogging pipes. Dispose of filtered material in the garbage, provided the carpet was not contaminated with hazardous materials.
- These guidelines apply even to cleaning products labeled "nontoxic" and "biodegradable."

### Training

1. **Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
2. **Train employees on proper spill containment and cleanup.**
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
3. **Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
4. **Use a training log or similar method to document training.**

### References

Water Quality Guidelines for Carpet Cleaning Activities. Orange County Stormwater Program. Prepared by Watershed & Coastal Resources Division. January 2002. On-line:

[http://www.ocwatersheds.com/PublicEducation/pe\\_brochures\\_carpet.asp](http://www.ocwatersheds.com/PublicEducation/pe_brochures_carpet.asp)

Orange County Stormwater Program. 2002. Water Quality Guidelines for Carpet Cleaning Activities. March.

**For additional information contact:**

City of Orange  
Public Works Department – Surface Water Quality  
714-532-6480  
or visit our website:

[www.cityoforange.org](http://www.cityoforange.org)



## IC5. CONCRETE AND ASPHALT PRODUCTION, APPLICATION, AND CUTTING

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Properly collect and dispose of process water.
2. Protect production, pouring, and cutting areas from stormwater runoff and runoff.
3. Sweep the production, pouring, and cutting areas regularly to collect loose materials.
4. Pre-heat, transfer or load hot bituminous material away from storm drain inlets.
5. Use drip pans or absorbent material to catch drips from paving equipment, including equipment that is not in use.
6. Cover and seal nearby storm drain inlets (with waterproof material or mesh) and manholes before applying seal coat, slurry seal, etc.
7. Conduct surface repair work during dry weather to prevent contamination from contacting stormwater runoff.
8. To avoid runoff, use only as much water as necessary for dust control.
9. Do not allow concrete and concrete pumping vehicles to discharge concrete, slurry, or rinse water into gutters, storm drains, or drainage ditches.
10. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

### Best Management Practices

#### 1. Properly collect and dispose of process water.

Discharge process water from production, pouring, equipment cleaning, and cutting activities to a sump, process water treatment or recycling system, or sanitary sewer system if allowed.

#### 2. Protect production, pouring, and cutting areas from stormwater runoff and runoff.

Construct a berm around the perimeter of the area to prevent the runoff of uncontaminated stormwater from adjacent areas as well as runoff of stormwater.

#### 3. Sweep the production, pouring, and cutting areas regularly to collect loose materials.

- **DO NOT** hose down area to a storm drain or conveyance ditch.
- Do not wash sweepings from exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stockpile, or dispose in the trash.

#### 4. Pre-heat, transfer or load hot bituminous material away from storm drain inlets.

#### 5. Use drip pans or absorbent material to catch drips from paving equipment, including equipment that is not in use. Dispose of collected material and absorbents properly.

#### 6. Cover and seal nearby storm drain inlets (with waterproof material or mesh) and manholes before applying seal coat, slurry seal, etc.

- Clean covers regularly.
- Leave covers in place until job is complete and clean any debris for proper disposal.

#### 7. Conduct surface repair work during dry weather to prevent contamination from contacting stormwater runoff.

#### 8. To avoid runoff, use only as much water as necessary for dust control.

9. **Do not allow concrete and concrete pumping vehicles to discharge concrete, slurry, or rinse water into gutters, storm drains, or drainage ditches.**

## **10. Training**

1. **Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
2. **Train employees on proper spill containment and cleanup.**
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
3. **Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
4. **Use a training log or similar method to document training.**

## **References**

Los Angeles County Stormwater Quality. Public Agency Activities Model Program. On-line: [http://ladpw.org/wmd/npdes/public\\_TC.cfm](http://ladpw.org/wmd/npdes/public_TC.cfm)

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. King County Surface Water Management. July 1995. On-line: <http://dnr.metrokc.gov/wlr/dss/spcm.htm>

Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July 1998. (Revised February 2002 by the California Coastal Commission)

Santa Clara Valley Urban Runoff Pollution Prevention Program. Maintenance Best Management Practices for the Construction Industry. Brochures: Landscaping, Gardening, and Pool; Roadwork and Paving; and Fresh Concrete and Mortar Application. June 2001.

### **For additional information contact:**

City of Orange  
Public Works Department – Surface Water Quality  
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or visit our website:  
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## IC6. CONTAMINATED OR ERODIBLE SURFACES AREAS

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

1. Protect contaminated or erodible surface areas from rainfall and wind dispersal.
2. Protect materials from stormwater runoff and runoff.
3. Minimize pooling of water.
4. Conduct routine maintenance.
5. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

### Best Management Practices

**1. Protect contaminated or erodible surface areas from rainfall and wind dispersal through one or more of the following:**

- Preserve natural vegetation.
- Re-plant or landscaping bare ground surfaces.
- Use chemical stabilization or geosynthetics to stabilize bare ground surfaces.
- Remove contaminated soils.
- Cover materials with a fixed roof or a temporary waterproof covering made of polyethylene, polypropylene or hypalon. Keep covers in place at all times when work is not occurring. If areas are so large that they cannot feasibly be covered and contained, implement erosion control practices at the perimeter of the area and at any catch basins to prevent dispersion of the stockpiled material.

**2. Protect materials from stormwater runoff and runoff.** Construct a berm around the perimeter of the area to prevent the runoff of uncontaminated stormwater from adjacent areas as well as runoff of stormwater from the material.

**3. Minimize pooling of water.** Paved areas should be sloped in a manner that minimizes the pooling of water in the area. A minimum slope of 1.5 percent is recommended.

**4. Conduct routine maintenance.** Sweep paved areas regularly to collect loose materials.

- **DO NOT** hose down area to a storm drain or conveyance ditch.
- Properly dispose of waste materials.

## 5. Training

1. **Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
2. **Train employees on proper spill containment and cleanup.**
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
3. **Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
4. **Use a training log or similar method to document training.**

## References

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. King County Surface Water Management. July 1995. On-line: <http://dnr.metrokc.gov/wlr/dss/spcm.htm>

Stormwater Management Manual for Western Washington. Volume IV Source Control BMPs. Prepared by Washington State Department of Ecology Water Quality Program. Publication No. 99-14. August 2001.

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## IC7. LANDSCAPE MAINTENANCE

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Take steps to reduce landscape maintenance requirements.
2. Properly store and dispose of gardening wastes.
3. Use mulch or other erosion control measures on exposed soils.
4. Properly manage irrigation and runoff.
5. Properly store and dispose of chemicals.
6. Properly manage pesticide and herbicide use.
7. Properly manage fertilizer use.
8. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

OPTIONAL:

9. Incorporate integrated pest management techniques where appropriate.

### Best Management Practices

#### 1. Take steps to reduce landscape maintenance requirements.

- Where feasible, retain and/or plant native vegetation with features that are determined to be beneficial. Native vegetation usually requires less maintenance than planting new vegetation.
- When planting or replanting consider using low water use flowers, trees, shrubs, and groundcovers.

OPTIONAL:

- Consider alternative landscaping techniques such as naturescaping and xeriscaping.

#### 2. Properly store and dispose of gardening wastes.

- Dispose of grass clippings, leaves, sticks, or other collected vegetation as garbage at a permitted landfill or by composting.
- Do not dispose of gardening wastes in streets, waterways, or storm drainage systems.
- Place temporarily stockpiled material away from watercourses and storm drain inlets, and berm and/or cover.

#### 3. Use mulch or other erosion control measures on exposed soils.

#### 4. Properly manage irrigation and runoff.

- Irrigate slowly or pulse irrigate so the infiltration rate of the soil is not exceeded.
- Inspect irrigation system regularly for leaks and to ensure that excessive runoff is not occurring.
- If re-claimed water is used for irrigation, ensure that there is no runoff from the landscaped area(s).
- If bailing of muddy water is required (e.g. when repairing a water line leak), do not put it in the storm drain; pour over landscaped areas.

OPTIONAL:

- Use automatic timers to minimize runoff.
- Use popup sprinkler heads in areas with a lot of activity or where pipes may be broken. Consider the use of mechanisms that reduce water flow to broken sprinkler heads.

**5. Properly store and dispose of chemicals.**

- Implement storage requirements for pesticide products with guidance from the local fire department and/or County Agricultural Commissioner.
- Provide secondary containment for chemical storage.
- Dispose of empty containers according to the instructions on the container label.

OPTIONAL:

- Triple rinse containers and use rinse water as product.

**6. Properly manage pesticide and herbicide use.**

- Follow all federal, state, and local laws and regulations governing the use, storage, and disposal of pesticides and herbicides and training of applicators and pest control advisors.
- Follow manufacturers' recommendations and label directions.
- Use pesticides only if there is an actual pest problem (not on a regular preventative schedule). When applicable use less toxic pesticides that will do the job. Avoid use of copper-based pesticides if possible. Use the minimum amount of chemicals needed for the job.
- Do not apply pesticides if rain is expected or if wind speeds are above 5 mph.
- Do not mix or prepare pesticides for application near storm drains. Prepare the minimum amount of pesticide needed for the job and use the lowest rate that will effectively control the targeted pest.
- Whenever possible, use mechanical methods of vegetation removal rather than applying herbicides. Use hand weeding where practical.
- Do not apply any chemicals directly to surface waters, unless the application is approved and permitted by the state. Do not spray pesticides within 100 feet of open waters.
- Employ techniques to minimize off-target application (e.g. spray drift) of pesticides, including consideration of alternative application techniques.
- Clean pavement and sidewalk if chemicals are spilled on these surfaces before applying irrigation water.
- When conducting mechanical or manual weed control, avoid loosening the soil, which could lead to erosion.

OPTIONAL:

- Purchase only the amount of pesticide that you can reasonably use in a given time period.
- Careful soil mixing and layering techniques using a topsoil mix or composted organic material can be used as an effective measure to reduce herbicide use and watering.

**7. Properly manage fertilizer use.**

- Follow all federal, state, and local laws and regulations governing the use, storage, and disposal of fertilizers.
- Follow manufacturers' recommendations and label directions.
- Employ techniques to minimize off-target application (e.g. spray drift) of fertilizer, including consideration of alternative application techniques. Calibrate fertilizer distributors to avoid excessive application.
- Periodically test soils for determining proper fertilizer use.

- Fertilizers should be worked into the soil rather than dumped or broadcast onto the surface.
- Clean pavement and sidewalk if chemicals are spilled on these surfaces before applying irrigation water.
- Sweep pavement and sidewalk if fertilizer is spilled on these surfaces before applying irrigation water.

OPTIONAL:

- Use slow release fertilizers whenever possible to minimize leaching

## 8. Training

1. **Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
2. **Educate and train employees on the use of pesticides and pesticide application techniques. Only employees properly trained to use pesticides can apply them.**
3. **Train and encourage employees to use integrated pest management techniques.**
4. **Train employees on proper spill containment and cleanup.**
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
5. **Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
6. **Use a training log or similar method to document training.**

OPTIONAL:

## 9. Incorporate the following integrated pest management techniques where appropriate:

- Mulching can be used to prevent weeds where turf is absent.
- Remove insects by hand and place in soapy water or vegetable oil. Alternatively, remove insects with water or vacuum them off the plants.
- Use species-specific traps (e.g. pheromone-based traps or colored sticky cards).
- Sprinkle the ground surface with abrasive diatomaceous earth to prevent infestations by soft-bodied insects and slugs. Slugs also can be trapped in small cups filled with beer that are set in the ground so the slugs can get in easily.
- In cases where microscopic parasites, such as bacteria and fungi, are causing damage to plants, the affected plant material can be removed and disposed of (pruning equipment should be disinfected with bleach to prevent spreading the disease organism).
- Small mammals and birds can be excluded using fences, netting, and tree trunk guards.
- Promote beneficial organisms, such as bats, birds, green lacewings, ladybugs, praying mantis, ground beetles, parasitic nematodes, trichogramma wasps, seedhead weevils, and spiders that prey on detrimental pest species.



## References

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. King County Surface Water Management. July 1995. On-line: <http://dnr.metrokc.gov/wlr/dss/spcm.htm>

Stormwater Management Manual for Western Washington. Volume IV Source Control BMPs. Prepared by Washington State Department of Ecology Water Quality Program. Publication No. 99-14. August 2001.

Water Quality Handbook for Nurseries. Oklahoma Cooperative Extension Service. Division of Agricultural Sciences and Natural Resources. Oklahoma State University. E-951. September 1999.

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## IC8. NURSERIES AND GREENHOUSES

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Properly manage irrigation and runoff.
  2. Properly store and dispose of gardening wastes.
  3. Properly store and dispose of chemicals.
  4. Properly manage pesticide and herbicide use.
  5. Properly manage fertilizer use.
  6. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
- OPTIONAL:
7. Incorporate integrated pest management techniques where appropriate.

### Best Management Practices

#### 1. Properly manage irrigation and runoff.

- Utilize intermittent (pulse) irrigation or drip irrigation so the infiltration rate of the soil is not exceeded.
- Regularly inspect irrigation systems for leaks and to ensure that excessive runoff is not occurring.
- Convert paved or bare soil areas to vegetation that will retard runoff (turf grasses or other comparable plant materials) wherever possible.

OPTIONAL:

- Group plants with similar water needs together to improve irrigation efficiency.
- Establish plant buffer zones between production areas and ditches, creeks, ponds, lakes, or wetlands.
- Install and use moisture sensors and automatic sprinklers for more accurate scheduling of irrigation.
- Recycle runoff, blend with fresh water as necessary.

#### 2. Properly store and dispose of gardening wastes.

- Dispose of grass clippings, leaves, sticks, or other collected vegetation as garbage at a permitted landfill or by composting.
- Do not dispose of gardening wastes in streets, waterways, or storm drainage systems.
- Place temporarily stockpiled material away from watercourses and storm drain inlets, and berm and/or cover.

### **3. Properly store and dispose of chemicals.**

- Implement storage requirements for pesticide products with guidance from the local fire department and/or County Agricultural Commissioner.
- Provide secondary containment for chemical storage.
- Dispose of empty containers according to the instructions on the container label.

OPTIONAL:

- Triple rinse containers and use rinse water as product.

### **4. Properly manage pesticide and herbicide use.**

- Follow all federal, state, and local laws and regulations governing the use, storage, and disposal of pesticides and herbicides and training of applicators and pest control advisors.
- Follow manufacturers' recommendations and label directions.
- Use pesticides only if there is an actual pest problem (not on a regular preventative schedule). When applicable use less toxic pesticides that will do the job. Avoid use of copper-based pesticides if possible. Use the minimum amount of chemicals needed for the job.
- Do not apply pesticides if rain is expected or if wind speeds are above 5 mph.
- Do not mix or prepare pesticides for application near storm drains. Prepare the minimum amount of pesticide needed for the job and use the lowest rate that will effectively control the pest.
- Do not mix, prepare, or spray pesticides within 100 feet of any well, stream, or pond.
- Do not get rid of unused pesticides by washing them down drains.
- Employ techniques to minimize off-target application (e.g. spray drift) of pesticides, including consideration of alternative application techniques.
- Clean pavement and sidewalk if chemicals are spilled on these surfaces before applying irrigation water

OPTIONAL:

- Careful soil mixing and layering techniques using a topsoil mix or composted organic material can be used as an effective measure to reduce herbicide use and watering.

### **5. Properly manage fertilizer use.**

- Follow all federal, state, and local laws and regulations governing the use, storage, and disposal of fertilizers.
- Follow manufacturers' recommendations and label directions.
- Employ techniques to minimize off-target application (e.g. spray drift) of fertilizer, including consideration of alternative application techniques. Calibrate fertilizer distributors to avoid excessive application.
- Periodically test soils for determining proper fertilizer use.
- Whenever feasible, spread out applications of controlled-release fertilizers and use split applications of soluble fertilizers over the growing season.
- Work fertilizers into the soil rather than dumping or broadcasting them.
- Sweep pavement and sidewalk if fertilizer is spilled on these surfaces before applying irrigation water.

OPTIONAL:

- Transition from the use of soluble fertilizers to controlled-release fertilizers. Use slow release fertilizers whenever possible to minimize leaching.
- Reduce or eliminate routine leaching of crops.

## 6. Training

1. **Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
2. **Educate and train employees on the use of pesticides and pesticide application techniques.**
3. **Train and encourage maintenance crews to use integrated pest management techniques.**
4. **Train employees on proper spill containment and cleanup.**
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
5. **Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
6. **Use a training log or similar method to document training.**

OPTIONAL:

7. **Incorporate the following integrated pest management techniques where appropriate:**
  - Remove insects by hand and place in soapy water or vegetable oil. Alternatively, remove insects with water or vacuum them off the plants.
  - Use species-specific traps (e.g. pheromone-based traps or colored sticky cards).
  - Sprinkle the ground surface with abrasive diatomaceous earth to prevent infestations by soft-bodied insects and slugs. Slugs also can be trapped in small cups filled with beer that are set in the ground so the slugs can get in easily.
  - In cases where microscopic parasites, such as bacteria and fungi, are causing damage to plants, the affected plant material can be removed and disposed of (pruning equipment should be disinfected with bleach to prevent spreading the disease organism).
  - Small mammals and birds can be excluded using fences, netting, and tree trunk guards.
  - Promote beneficial organisms, such as bats, birds, green lacewings, ladybugs, praying mantis, ground beetles, parasitic nematodes, trichogramma wasps, seedhead weevils, and spiders that prey on detrimental pest species.

## References

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. King County Surface Water Management. July 1995. On-line: <http://dnr.metrokc.gov/wlr/dss/spcm.htm>

Stormwater Management Manual for Western Washington. Volume IV Source Control BMPs. Prepared by Washington State Department of Ecology Water Quality Program. Publication No. 99-14. August 2001.

Water Quality Handbook for Nurseries. Oklahoma Cooperative Extension Service. Division of Agricultural Sciences and Natural Resources. Oklahoma State University. E-951. September 1999.

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## IC9. OUTDOOR DRAINAGE FROM INDOOR AREAS

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Design operating areas to minimize stormwater exposure.
2. Utilize dry cleanup methods such as sweeping for removal of litter and debris, or use of rags and absorbents for leaks and spills.
3. Use secondary containment or protective barriers for indoor liquid storage.
4. Install a fire sprinkler containment system for hazardous material storage.
5. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

### Best Management Practices

1. **Design operating areas to minimize stormwater exposure.**
  - Construct a berm or intercept trench at doorways.
  - Install a collection system for pretreatment and sewer disposal under permit.
2. **Utilize dry cleanup methods such as sweeping for removal of litter and debris, or use of rags and absorbents for leaks and spills.** Properly dispose of collected wastes.
3. **Use secondary containment or protective barriers for indoor liquid storage.**
4. **Install a fire sprinkler containment system for hazardous material storage.**
5. **Training**
  1. **Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
  2. **Train employees on proper spill containment and cleanup.**
    - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
    - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
    - BMP IC17 discusses Spill Prevention and Control in detail.
  3. **Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
  4. **Use a training log or similar method to document training.**

### References

California Storm Water Best Management Practice Handbooks. Municipal Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

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## IC10. OUTDOOR LOADING/UNLOADING OF MATERIALS

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Properly design loading/unloading areas to prevent storm water runoff, runoff of spilled liquids, etc.
2. Park vehicles and conduct loading/unloading only in designated loading/unloading areas so that spills or leaks can be contained.
3. Clean loading/unloading areas regularly to remove potential sources of pollutants.
4. Reduce exposure of materials to rain.
5. Use drip pans underneath hose and pipe connections and other leak-prone spots during liquid transfer operations, and when making and breaking connections.
6. Inspect equipment regularly.
7. If possible, conduct loading and unloading in dry weather.
8. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

### Best Management Practices

1. **Properly design loading/unloading areas to prevent storm water runoff, runoff of spills, etc.**
  - Grade and/or berm the area to prevent runoff.
  - Position roof downspouts to direct stormwater away from the area.
  - Grade and/or berm the loading/unloading area to a drain that is connected to a dead-end.
  - The area where truck transfers take place should be paved. If the liquid is reactive with the asphalt, Portland cement should be used to pave the area.
  - Avoid placing loading/unloading areas near storm drains.
2. **Park vehicles and conduct loading/unloading only in designated loading/unloading areas so that spills or leaks can be contained.**
3. **Clean loading/unloading areas regularly to remove potential sources of pollutants.** This includes outside areas that are regularly covered by containers or other materials.
4. **Reduce exposure of materials to rain.**
  - Cover the loading/unloading areas.
  - If a cover is unfeasible, use overhangs, or seals or door skirts to enclose areas.
5. **Use drip pans underneath hose and pipe connections and other leak-prone spots during liquid transfer operations, and when making and breaking connections.**
6. **Inspect equipment regularly**
  - Designate a responsible party to check under delivery vehicles for leaking fluids, spilled materials, debris, or other foreign materials.
  - Check loading/unloading equipment regularly for leaks.
7. **If possible, conduct loading and unloading in dry weather.**

## **8. Training**

- 1. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
- 2. Train employees on proper spill containment and cleanup.**
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
- 3. Train employees on the proper techniques used during liquid transfers to avoid leaks and spills.**
- 4. Train forklift operators on the proper loading and unloading procedures.**
- 5. Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
- 6. Use a training log or similar method to document training.**

## **References**

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July 1998 (Revised February 2002 by the California Coastal Commission).

Stormwater Management Manual for Western Washington. Volume IV Source Control BMPs. Prepared by Washington State Department of Ecology Water Quality Program. Publication No. 99-14. August 2001.

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## IC11. OUTDOOR PROCESS EQUIPMENT OPERATIONS AND MAINTENANCE

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Alter activities to prevent exposure of pollutants to stormwater.
2. Cover process equipment/area with a permanent roof.
3. Design process area to prevent stormwater runoff.
4. Design process area to contain spills.
5. Inspect equipment regularly.
6. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

#### OPTIONAL:

7. Eliminate or reduce amount of hazardous materials and wastes
8. Recycle wastes whenever possible

### Best Management Practices

1. **Alter activities to prevent exposure of pollutants to stormwater.**
  - Perform activities during dry periods.OPTIONAL:
  - Move activities indoors.
  - Replace toxic materials with benign materials.
2. **Cover process equipment/area with a permanent roof.**
3. **Design process area to prevent stormwater runoff.**
  - Grade and/or berm the area to prevent runoff.
  - Position roof downspouts to direct stormwater away from the area.
4. **Design process area to contain spills.**
  - Place equipment on an impervious surface, or install a drip pan under potential leak points.
  - Construct a berm around the process equipment to contain spills.
  - Install drains connected to the public sewer or the facility's process wastewater system within these contained areas. **DO NOT** discharge to a public sewer until contacting the local sewer authority to find out if pretreatment is required. If discharge to the sanitary sewer is not allowed, pump water to a tank and dispose of properly.
5. **Inspect equipment regularly.**
  - Conduct regular and frequent inspection of equipment for leaks, malfunctions, staining on and around equipment, and other evidence of leaks.
  - Develop a standard methodology for reporting inspection results.
  - Develop a procedure for taking action on items in the report, responding to leaks, cleaning up spills, and completing repairs to prevent future leaks.

## 6. Training

1. **Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
2. **Train employees on proper spill containment and cleanup.**
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
3. **Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
4. **Use a training log or similar method to document training.**

### **OPTIONAL:**

7. If possible, **eliminate or reduce the amount of hazardous materials and waste** by substituting non-hazardous or less hazardous material:
  - Use non-caustic detergents instead of caustic cleaning for parts cleaning.
  - Use a water-based cleaning service and have tank cleaned. Use detergent-based or water-based cleaning systems in place of organic solvent degreasers.
  - Replace chlorinated organic solvents with non-chlorinated solvents. Non-chlorinated solvents like kerosene or mineral spirits are less toxic and less expensive to dispose of properly. Check list of active ingredients to see whether it contains chlorinated solvents.
  - Choose cleaning agents that can be recycled.
8. **Recycled wastes whenever possible**
  - Recycling is always preferable to disposal of unwanted materials.
  - Separate wastes for easier recycling. Keep hazardous and non-hazardous wastes separate, do not mix used oil and solvents, and keep chlorinated solvents separate from non-chlorinated solvents.
  - Label and track the recycling of waste material (e.g. used oil, spent solvents, batteries). Purchase recycled products to support the market for recycled materials.

## References

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July 1998 (Revised February 2002 by the California Coastal Commission).

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## IC12. OUTDOOR STORAGE OF RAW MATERIALS, PRODUCTS, AND CONTAINERS

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Store materials indoors, if feasible.
2. Store materials on paved or impervious surfaces.
3. Protect materials stored outside from rainfall and wind dispersal.
4. Protect materials stored outside from stormwater runoff.
5. Minimize pooling of water.
6. All materials stored outside should have a secondary containment system.
7. Properly store and handle chemical materials.
8. Keep outdoor storage containers in good condition.
9. Conduct regular inspections of storage areas.
10. If drums are stored in an area where unauthorized persons may gain access secure them in such a manner as to prevent accidental spillage, pilferage, or any unauthorized use.
11. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

### Best Management Practices

1. **Store materials indoors, if feasible.**
  2. **Store materials on paved or impervious surfaces.**
  3. **Protect materials stored outside from rainfall and wind dispersal.**
    - Cover materials with a fixed roof or a temporary waterproof covering made of polyethylene, polypropylene, or hypalon.
    - Keep covers in place at all times when work is not occurring.
    - If areas are so large that they cannot feasibly be covered and contained, implement erosion control practices at the perimeter of the area and at any catch basins to prevent dispersion of the stockpiled material.
  4. **Protect materials stored outside from stormwater runoff.** Construct a berm around the perimeter of the material storage area to prevent the runoff of uncontaminated stormwater from adjacent areas as well as runoff of stormwater from the material.
  5. **Minimize pooling of water.** Slope paved areas to minimize the pooling of water on the site, particularly with materials that may leach pollutants into stormwater and/or groundwater, such as compost, logs, and wood chips. A minimum slope of 1.5 percent is recommended.
  6. **All materials stored outside should have a secondary containment system.**
    - Surround storage tanks with a berm or other secondary containment system.
    - Slope the area inside the berm to a drain.
    - Drain liquids to the sanitary sewer if available.
    - **DO NOT** discharge wash water to sanitary sewer until contacting the local sewer authority to find out if pretreatment is required. If discharge to the sanitary sewer is not allowed, pump water to a tank and dispose of properly.
- OPTIONAL:
- Pass accumulated stormwater in petroleum storage areas through an oil/water separator.

**7. Properly store and handle chemical materials.**

- Designate a secure material storage area that is paved with Portland cement concrete, free of cracks and gaps, and impervious in order to contain leaks and spills.
- Do not store chemicals, drums, or bagged materials directly on the ground. Place these items in secondary containers.
- Liquid materials should be stored in UL approved double walled tanks or surrounded by a curb or dike to provide the volume to contain 10 percent of the volume of all the containers or 110 percent of the volume of the largest container, whichever is greater.
- Keep chemicals in their original containers, if feasible, and keep them well labeled.

**8. Keep outdoor storage containers in good condition.**

- Keep storage areas clean and dry.
- Sweep and maintain routes to and from storage areas.

**9. Conduct regular inspections of storage areas.**

- Check for external corrosion of material containers, structural failures, spills and overfills due to operator error, failure of piping system, etc.
- Inspect tank foundations, connections, coatings, tank walls, and piping system.
- Look for corrosion, leaks, cracks, scratches, and other physical damage that may weaken tanks or container systems.

**10. If drums are stored in an area where unauthorized persons may gain access secure them in such a manner as to prevent accidental spillage, pilferage, or any unauthorized use.**

**11. Training**

- 1. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
- 2. Train employees on proper spill containment and cleanup.**
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
- 3. Train forklift operators on the proper loading and unloading procedures.**
- 4. Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
- 5. Use a training log or similar method to document training.**

**References**

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## IC13. OVER WATER ACTIVITIES

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Move maintenance and repair activities on-shore, if feasible.
2. Use ground cloths and/or secondary containment when painting boats on land.
3. Shelter any blasting and spray painting activities.
4. Post signs to indicate proper use and disposal of residual paints, rags, used oil, and other engine fluids.
5. Boats with inboard engines should have oil absorption pads in bilge areas that are changed when no longer useful or at least once a year.
6. Keep boat motors well-tuned to prevent fuel and lubricant leaks.
7. Recycle used motor oil, diesel oil, and other fluids and parts whenever possible.
8. Maintain a clean working environment.
9. Properly dispose of bilge water, ballast water, and wastewater.
10. Minimize impacts of cleaning products.
11. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

### Best Management Practices

1. **Move maintenance and repair activities on-shore if feasible.**
  - Perform paint and solvent mixing, fuel mixing, and similar handling of liquids on-shore, to avoid spillage directly to surface water bodies.
  - Limit over-water hull surface maintenance to sanding and minor painting. Major hull resurfacing should occur on land.
2. **Use ground cloths and/or secondary containment when painting boats on land.**
3. **Shelter any blasting and spray painting activities.**
  - Hang wind-blocking tarps to prevent blasting dust and overspray from escaping.
  - Do not conduct these activities when wind conditions are such that containment is rendered ineffective.
4. **Post signs to indicate proper use and disposal of residual paints, rags, used oil, and other engine fluids.**
5. **Boats with inboard engines should have oil absorption pads in bilge areas that are changed when no longer useful or at least once a year.**
6. **Keep boat motors well-tuned to prevent fuel and lubricant leaks.**
7. **Recycle used motor oil, diesel oil, and other fluids and parts whenever possible.**

**8. Maintain a clean working environment.**

- Utilize dry cleaning methods (e.g. sweeping). If washing is unavoidable, collect wash water for treatment and/or proper disposal.
- Vacuum loose paint chips and paint dust to prevent paint and other chemical substances from entering waters.
- Properly dispose of surface chips, used blasting sand, residual paints, and other materials. Use temporary storage containment that is not exposed to rain.
- Sweep dry docks before flooding.

**9. Properly dispose of bilge water, ballast water, and wastewater.**

- Collect bilge and ballast water that has an oily sheen for proper disposal.
- Collect and properly dispose of wash water from washing painted boat hulls.
- Pump bilge water into storage tanks on shore for analysis, treatment and proper disposal.
- **DO NOT** discharge treated or untreated sewage from vessels to harbors.
- Empty portable toilets into approved shore side waste handling facilities and MSDs should be discharged into approved pump out stations.
- Use as fine a filter as is practical on the ballast water intake ports to eliminate as many organisms and as much particulate matter as possible.
- Carry out physical or chemical sterilization or neutralization of ballast water *in situ*, and subsequent neutralization of the sterilant, if required, before discharge.
- Dump estuarine or harbor ballast water at sea and take in fresh high salinity water to eliminate both pollutants and estuarine organisms.

**10. Minimize impacts of cleaning products.**

- Clean parts without using solvents whenever possible.
- OPTIONAL:
- Use nontoxic chemicals that do not harm humans or aquatic life.
  - Use phosphate-free and biodegradable detergents for hull washing.
  - Choose cleaning agents that can be recycled.

**11. Training**

- 1. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
- 2. Train employees on proper spill containment and cleanup.**
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
- 3. Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
- 4. Use a training log or similar method to document training.**

## **References**

Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July 1998 (Revised February 2002 by the California Coastal Commission).

Stormwater Management Manual for Western Washington. Volume IV Source Control BMPs. Prepared by Washington State Department of Ecology Water Quality Program. Publication No. 99-14. August 2001.

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## IC14. PAINTING, FINISHING, AND COATINGS OF VEHICLES, BOATS, BUILDINGS, AND EQUIPMENT

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

1. Use drop/ground cloths.
2. Shelter any blasting and spray painting activities.
3. Maintain a clean working environment.
4. Cover and seal nearby storm drain inlets.
5. Properly clean, store, and dispose of painting, finishing, and coating materials.
6. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

### Best Management Practices

#### 1. Use drop/ground cloths.

- Underneath outdoor painting, scraping, and sandblasting work.
- Underneath outdoor mixing of paints, solvents, and tool cleaning.

#### 2. Shelter any blasting and spray painting activities.

- Hang wind-blocking tarps to prevent sand blasting dust and overspray from escaping.
- Do not conduct these activities when wind conditions are such that containment is rendered ineffective.
- Do not conduct these activities over open water.

#### 3. Maintain a clean working environment.

- Utilize dry cleaning methods (e.g. sweeping). If washing is unavoidable, collect wash water for treatment and/or proper disposal.
- Vacuum loose paint chips and paint dust to prevent paint and other chemical substances from entering waters.
- Properly dispose of surface chips, used blasting sand, residual paints, and other materials. Use temporary storage containment that is not exposed to rain.

#### 4. Cover and seal nearby storm drain inlets.

- Cover and seal nearby storm drain inlets with waterproof material, mesh, or other runoff control device.
- Leave covers in place until job is complete.
- Clean covers daily and remove any debris for proper disposal.

**5. Properly clean, store, and dispose of painting, finishing, and coating materials.**

- Do not dispose of toxic substances or liquid wastes on the pavement, the ground, or toward a storm drain.
- Cover materials left outdoors at the end of the workday with a temporary waterproof covering made of polyethylene, polypropylene or hypalon.
- Clean paint brushes and tools covered with water-based paints in sinks connected to sanitary sewers or in portable containers that can be poured into a sanitary sewer drain.
- Clean paint brushes and tools covered with non-water-based paints, finishes, or other materials such that used solvents (e.g., paint thinner, turpentine, etc.) can be collected for recycling or proper disposal.

**OPTIONAL:**

- Recycle paint, paint thinner, solvents, and other recyclable materials whenever possible.

**6. Training**

- 1. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
- 2. Train employees on proper spill containment and cleanup.**
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
- 3. Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
- 4. Use a training log or similar method to document training.**

**References**

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. King County Surface Water Management. July 1995. On-line: <http://dnr.metrokc.gov/wlr/dss/spcm.htm>

Stormwater Management Manual for Western Washington. Volume IV Source Control BMPs. Prepared by Washington State Department of Ecology Water Quality Program. Publication No. 99-14. August 2001.

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## IC15. PARKING AND STORAGE AREA MAINTENANCE

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Conduct regular cleaning.
2. Properly collect and dispose of wash water.
3. Consider use of source treatment BMPs to treat runoff.
4. Keep the parking and storage areas clean and orderly.
5. When cleaning heavy oily deposits:
6. When conducting surface repair work:
7. Conduct inspections on a regular basis.
8. Keep accurate maintenance logs to evaluate materials removed/stored and improvements made.
9. Arrange rooftop drains to prevent drainage directly onto paved surfaces.
10. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

### Best Management Practices

#### 1. Conduct regular cleaning.

- Sweeping or vacuuming the parking facility is encouraged over other methods.
- Sweep all parking lots at least once before the onset of the wet season.

OPTIONAL:

- Establish frequency of sweeping based on usage and field observations of waste accumulation.

#### 2. Properly collect and dispose of wash water.

- Block the storm drain or contain runoff.
- Wash water should be collected and pumped to the sanitary sewer or discharged to a pervious surface, do not allow wash water to enter storm drains. **DO NOT** discharge wash water to sanitary sewer until contacting the local sewer authority to find out if pretreatment is required.
- Dispose of parking lot sweeping debris and dirt at a landfill.

#### 3. Consider use of source treatment BMPs to treat runoff.

- Allow sheet runoff to flow into biofilters (vegetated strip and swale) and/or infiltration devices.
- Utilize sand filters or oleophilic collectors for oily waste in low quantities.

#### 4. Keep the parking and storage areas clean and orderly.

- Clean out and cover litter receptacles frequently to prevent spillage.
- Remove debris in a timely fashion.

OPTIONAL:

- Post "No Littering" signs.

#### 5. When cleaning heavy oily deposits:

- If possible, clean oily spots with absorbent materials.
- Do not allow discharges to the storm drain.
- Appropriately dispose of spilled materials and absorbents.



**6. When conducting surface repair work:**

- Pre-heat, transfer or load hot bituminous material away from storm drain inlets.
- Conduct surface repair work during dry weather to prevent contamination from contacting stormwater runoff.
- Cover and seal nearby storm drain inlets (with waterproof material or mesh) and manholes before applying seal coat, slurry seal, etc. Leave covers in place until job is complete and clean any debris for proper disposal.
- To avoid runoff, use only as much water as necessary for dust control.
- Use drip pans or absorbent material to catch drips from paving equipment that is not in use. Dispose of collected material and absorbents properly.

**7. Conduct inspections on a regular basis.**

- Designate personnel to conduct inspections of the parking facilities and stormwater conveyance systems associated with them.
- Inspect cleaning equipment/sweepers for leaks on a regular basis.

**8. Keep accurate maintenance logs to evaluate materials removed/stored and improvements made.**

**9. Arrange rooftop drains to prevent drainage directly onto paved surfaces.**

**10. Training**

**1. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**

**2. Train employees on proper spill containment and cleanup.**

- Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
- Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
- BMP IC17 discusses Spill Prevention and Control in detail.

**3. Provide regular training to field employees and/or contractors regarding cleaning of paved areas and proper operation of equipment.**

**4. Establish a regular training schedule, train all new employees, and conduct annual refresher training.**

**5. Use a training log or similar method to document training.**

**References**

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. King County Surface Water Management. July 1995. On-line: <http://dnr.metrokc.gov/wlr/dss/spcm.htm>

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## IC16. POOL AND FOUNTAIN CLEANING

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

1. Prevent algae problems with regular cleaning, consistent adequate chlorine levels, and well-maintained water filtration and circulation systems.
2. Manage pH and water hardness to minimize corrosion of copper pipes.
3. Discharge pool and fountain water properly.
4. Properly clean and/or dispose of filters.
5. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

### Best Management Practices

1. **Prevent algae problems with regular cleaning, consistent adequate chlorine levels, and well-maintained water filtration and circulation systems.**
  - Do not use copper-based algaecides.
  - Control algae with chlorine or other alternatives, such as sodium bromide.
2. **Manage pH and water hardness to minimize corrosion of copper pipes.**
3. **Discharge pool and fountain water properly.** Consider hiring a professional pool-draining service to collect all pool water for off-site disposal. If this is not feasible, adhere to the following:
  - When draining pools or fountains never discharge water to a street or storm drain, discharge to the sanitary sewer if permitted to do so.
  - If draining a pool to the sanitary sewer, prevent backflow by maintaining an “air gap” between the discharge line and the sewer line (do not seal the connection between the hose and sewer line). Be sure to call the local sewer authority for guidance on flow rate restrictions, backflow prevention, and handling special cleaning waste (such as acid wash). Keep discharge flows to the low levels. Higher flow rates may be prohibited by local ordinance.
  - If water is dechlorinated with a neutralizing chemical or by allowing chlorine to dissipate for a few days (do not use the facility during this time), the water may be recycled/reused by draining it gradually onto a landscaped area. Water must be tested prior to discharge to ensure that chlorine is not present.
  - Provide drip pans or buckets beneath drain pipe connections to catch leaks. This will be especially pertinent if pool or spa water that has not been dechlorinated is pumped through piping to a discharge location.

#### **4. Properly clean and/or dispose of filters.**

- Never clean a filter in the street or near a storm drain.
- Rinse cartridge filters onto a dirt area, and work filter residue into soil.
- Backwash diatomaceous earth filters onto dirt. Dispose of spent diatomaceous earth in the garbage. Diatomaceous earth cannot be discharged to surface waters, storm drainage systems, septic systems, or on the ground.
- If there is not a suitable dirt area, discharge filter backwash or rinsewater to the sanitary sewer if permitted to do so by the local sewerage agency.

#### **5. Training**

- 1. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
- 2. Train employees on proper spill containment and cleanup.**
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
- 3. Train maintenance personnel on the proper techniques for testing chlorine levels and applying neutralizing chemicals.**
- 4. Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
- 5. Use a training log or similar method to document training.**

#### **References**

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. 1995.  
King County Surface Water Management. July. On-line: <http://dnr.metrokc.gov/wlr/dss/spcm.htm>

Los Angeles County Stormwater Quality. Public Agency Activities Model Program. On-line:  
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Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July 1998 (Revised February 2002 by the California Coastal Commission).

Santa Clara Valley Urban Runoff Pollution Prevention Program. Maintenance Best Management Practices for the Construction Industry. Brochures: Landscaping, Gardening, and Pool; Roadwork and Paving; and Fresh Concrete and Mortar Application. June 2001.

#### **For additional information contact:**

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## IC17. SPILL PREVENTION AND CLEANUP

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Develop procedures to prevent/mitigate spills to storm drain systems.
2. Post "No Dumping" signs with a phone number for reporting illegal dumping and disposal.
3. Conduct routine cleaning, inspections, and maintenance.
4. Properly store and handle chemical materials.
5. Utilize secondary containment systems for liquid materials.
6. Protect materials stored outside from stormwater runoff.
7. Secure drums stored in an area where unauthorized persons may gain access to prevent accidental spillage, pilferage, or any unauthorized use.
8. Identify key spill response personnel.
9. Adopt the Orange County Hazardous Materials Area Plan or an equivalent plan.
10. Clean up leaks and spills immediately.
11. Report and track spills.
12. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

### Best Management Practices

#### Spill Prevention

1. **Develop procedures to prevent/mitigate spills to storm drain systems.**  
Standardize reporting procedures, containment, storage, and disposal activities, documentation, and follow-up procedures.
2. **Post "No Dumping" signs with a phone number for reporting illegal dumping and disposal. Signs should also indicate fines and penalties applicable for illegal dumping.**
3. **Conduct routine cleaning, inspections, and maintenance.**
  - Sweep and clean storage areas consistently at a designated frequency (e.g. weekly, monthly). **DO NOT** hose down areas to storm drains.
  - Place drip pans or absorbent materials beneath all mounted taps, and at all potential drip and spill locations during filling and unloading of tanks. Reuse, recycle, or properly dispose of any collected liquids or soiled absorbent materials.
  - Check tanks (and any containment sumps) frequently for leaks and spills. Replace tanks that are leaking, corroded, or otherwise deteriorating with tanks in good condition. Collect all spilled liquids and properly dispose of them.
  - Check for external corrosion of material containers, structural failures, spills and overfills due to operator error, failure of piping system, etc.
  - Inspect tank foundations, connections, coatings, and tank walls and piping system.

**4. Properly store and handle chemical materials.**

- Designate a secure material storage area that is paved with Portland cement concrete, free of cracks and gaps, and impervious in order to contain leaks and spills.
- Do not store chemicals, drums, or bagged materials directly on the ground. Place these items in secondary containers.
- Keep chemicals in their original containers, if feasible.
- Keep containers well labeled according to their contents (e.g., solvent, gasoline).
- Label hazardous substances regarding the potential hazard (corrosive, radioactive, flammable, explosive, poisonous).
- Prominently display required labels on transported hazardous and toxic materials (per US DOT regulations).

**5. Utilize secondary containment systems for liquid materials.**

- Surround storage tanks with a berm or other secondary containment system.
- Slope the area inside the berm to a drain.
- Drain liquids to the sanitary sewer if available.
- Pass accumulated stormwater in petroleum storage areas through an oil/water separator.
- Use catch basin filtration inserts.
- **DO NOT** discharge wash water to sanitary sewer until contacting the local sewer authority to find out if pretreatment is required.
- If the liquid is oil, gas, or other material that separates from and floats on water, install a spill control device (such as a tee section) in the catch basins that collect runoff from the storage tank area.

**6. Protect materials stored outside from stormwater runoff.** Construct a berm around the perimeter of the material storage area to prevent the runoff of uncontaminated stormwater from adjacent areas as well as runoff of stormwater from the material.

**7. Secure drums stored in an area where unauthorized persons may gain access to prevent accidental spillage, pilferage, or any unauthorized use.**

**Spill Control and Cleanup Activities**

**8. Identify key spill response personnel.**

**9. Adopt the Orange County Hazardous Materials Area Plan or an equivalent plan, which includes a set of planned responses to hazardous materials emergencies addressing chain-of-command, public agency participation, and allocation of authority. The plan should include such items as:**

- Description of the facility, owner and address, activities and chemicals present
- Facility map
- Notification and evacuation procedures
- Cleanup instructions
- Identification of responsible departments

## **10. Clean up leaks and spills immediately.**

- Place a stockpile of spill cleanup materials where they will be readily accessible (e.g. near storage and maintenance areas).
- Utilize dry cleaning methods to clean up spills to minimize the use of water. Use a rag for small spills, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then used cleanup materials are also hazardous and must be sent to a certified laundry (rags) or disposed of as hazardous waste. Physical methods for the cleanup of dry chemicals include the use brooms, shovels, sweepers, or plows.
- Never hose down or bury dry material spills. Sweep up the material and dispose of properly.
- Clean up chemical materials with absorbents, gels, and foams. Use adsorbent materials on small spills rather than hosing down the spill. Remove the adsorbent materials promptly and dispose of properly.
- For larger spills, a private spill cleanup company or Hazmat team may be necessary.

## **11. Reporting**

- 1. Report spills that pose an immediate threat to human health or the environment to local agencies, such as the fire department, and the Regional Water Quality Control Board.**
- 2. Establish a system for tracking incidents. The system should be designed to identify the following:**
  - Types and quantities (in some cases) of wastes
  - Patterns in time of occurrence (time of day/night, month, or year)
  - Mode of dumping (abandoned containers, “midnight dumping” from moving vehicles, direct dumping of materials, accidents/spills)
  - Responsible parties
- 3. Federal regulations require that any oil spill into a water body or onto an adjoining shoreline be reported to the National Response Center (NRC) at 800-424-8802 (24 hour).**

## **12. Training**

- 1. Educate employees about spill prevention and cleanup.**
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Educate employees on aboveground storage tank requirements.
  - Train all employees upon hiring and conduct annual refresher training.
- 2. Train employees responsible for aboveground storage tanks and liquid transfers on the Spill Prevention Control and Countermeasure Plan.**

## References

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July 1998 (Revised February 2002 by the California Coastal Commission).

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## IC18. VEHICLE AND EQUIPMENT FUELING

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Use properly maintained off-site fueling stations whenever possible.
  2. Maintain clean fuel-dispensing areas.
  3. Design fueling areas to minimize stormwater exposure.
  4. Minimize pooling of water.
  5. If conducting mobile fueling, designate mobile fueling areas and bring equipment to these areas.
  6. Utilize fueling safeguards.
  7. Conduct regular inspections of fueling equipment.
  8. Use secondary containment when transferring fuel from the tank truck to the fuel tank and cover storm drains in the vicinity during transfer.
  9. Fit underground storage tanks (USTs) with spill containment and overfill prevention systems meeting the requirements of Section 2635(b) of Title 23 of the California Code of Regulations.
  10. Equip USTs with spill and overfill protection.
  11. Install required AQMD equipment and post a notice.
  12. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
- OPTIONAL:
13. Post signs to remind employees and customers not to top off the fuel tank when filling and signs that ban customers and employees from changing engine oil or other fluids at that location.

### Best Management Practices

1. **Use properly maintained off-site fueling stations whenever possible.** These businesses are better equipped to handle fueling and spills.
2. **Maintain clean fuel-dispensing areas.**
  - Use dry cleanup methods such as sweeping for removal of litter and debris, or use of rags and absorbents for leaks and spills.
  - If cleaning by washing, place a temporary plug in the downstream drain and pump out the accumulated water. Properly dispose of the water. **DO NOT** discharge wash water to sanitary sewer until contacting the local sewer authority to find out if pretreatment is required.
3. **Design fueling areas to minimize stormwater exposure.**
  - Cover the fuel dispensing area such that the cover's minimum dimensions are equal to or greater than the area within the grade break or fuel dispensing area. Position roof downspouts to direct water away from fueling areas. Where covering is not feasible, the pavement must be sealed completely to avoid seepage into soil.
  - Pave fuel area with Portland cement concrete or equivalent smooth impervious surface. Grade with a 2 to 4 percent slope to prevent ponding.
  - Use secondary containment. Construct a berm around the perimeter of the material storage area to prevent the runoff of uncontaminated stormwater from adjacent areas as well as stormwater runoff.

4. **Minimize pooling of water.**
  - Use a perimeter drain or slope pavement inward with drainage to sump. A minimum slope of 1.5 percent is recommended.
  - Install inlet catch basin equipped with a small sedimentation basin or grit chamber to remove large particles from stormwater in impervious areas.
  - During the wet season, release accumulated stormwater frequently.
5. **If conducting mobile fueling, designate mobile fueling areas and bring equipment to these areas.**
  - Use secondary containment when conducting mobile fueling.
  - Cover storm drains in the vicinity during transfer.
6. **Utilize fueling safeguards.**
  - Use overflow protection devices on tank systems to warn the operator to automatically shutdown transfer pumps when the tank reaches full capacity.
  - Install protective guards around tanks and piping to prevent vehicle or forklift damage.
  - Clearly tag or label all valves to reduce human error.
  - Place spill kits at fueling areas and/or on vehicles.
  - Install vapor recovery nozzles to help control drips as well as air pollution.
  - Eliminate or post hose bibs.

OPTIONAL:

- Fit fuel dispensing nozzles with "hold-open latches" (automatic shutoffs) except where prohibited by local fire departments.

7. **Conduct regular inspections of fueling equipment.**
  - Check fueling equipment for external corrosion and structural failure.
  - Check for spills and overfills due to operator error.
  - Check for failure of piping system.
  - Check for leaks or spills during pumping of liquids or gases from truck or rail car to a storage facility or visa versa.
  - Visually inspect new tank or container installation for loose fittings, poor welding, and/or improper or poorly fitting gaskets.
  - Inspect tank foundations, connections, leaks, cracks, scratches, and other physical damage that may weaken the tank or container system.
  - Report leaking vehicles to fleet maintenance.

OPTIONAL:

- Periodically, have a qualified professional conduct integrity testing.

8. **Use secondary containment when transferring fuel from the tank truck to the fuel tank and cover storm drains in the vicinity during transfer.**
9. **Fit underground storage tanks (USTs) with spill containment and overfill prevention systems meeting the requirements of Section 2635(b) of Title 23 of the California Code of Regulations.**
10. **Equip USTs with spill and overfill protection.**
11. **Install required AQMD equipment and post a notice.**

## 12. Training

1. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
2. Train employees on proper fueling and cleanup procedures.
3. Train employees on proper spill containment and cleanup.
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
4. Establish a regular training schedule, train all new employees, and conduct annual refresher training.
5. Use a training log or similar method to document training.

### OPTIONAL:

13. Post signs to remind employees and customers not to top off the fuel tank when filling and signs that ban customers and employees from changing engine oil or other fluids at that location.

## References

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. King County Surface Water Management. July 1995. On-line: <http://dnr.metrokc.gov/wlr/dss/spcm.htm>

Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July 1998 (Revised February 2002 by the California Coastal Commission).

## IC19. VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

### Best Management Practices

#### 1. Only conduct maintenance or repair work in designated areas.

- Conduct maintenance and repair work in a designated area with spill containment.
- Construct a berm or intercept trench at doorways to prevent the runoff of uncontaminated stormwater from adjacent areas as well as stormwater runoff.

#### 2. Utilize dry cleanup methods such as sweeping, try to avoid washing down work areas.

- If work areas are washed and if discharge to the sanitary sewer is allowed, treat water with an appropriate treatment device (e.g. clarifier) before discharging. **DO NOT** discharge wash water to sanitary sewer until contacting the local sewer authority to find out if pretreatment is required.
- If discharge to the sanitary sewer is not permitted, pump water to a tank and dispose of properly.

#### 3. Use drip pans and/or containers where needed. Keep a drip pan or container under equipment or vehicles when unclipping hoses, unscrewing filters, or conducting other maintenance and repair work that may result in fluids dripping or splattering onto the shop floor or ground.

#### 4. Inspect vehicles and equipment for leaks.

- Inspect incoming vehicles and equipment for leaks.
- Inspect vehicles and equipment during regular maintenance; keep records.

#### 5. Dispose of all waste products properly and recycle whenever possible.

- Promptly transfer waste materials to the proper waste or recycling drums.
- Store waste and/or recycling drums in designated areas with spill containment.
- Separate hazardous and non-hazardous wastes, do not mix used oil and solvents and keep chlorinated solvents separate from non-chlorinated solvents.
- Store cracked batteries in a non-leaking secondary container and dispose of properly at recycling or household hazardous waste facilities.

OPTIONAL:

- Recycle greases, used oils, oil filters, antifreeze, cleaning solutions, batteries, and hydraulic and transmission fluids whenever possible.

1. Only conduct maintenance or repair work in designated areas.
  2. Utilize dry cleanup methods such as sweeping try to avoid washing down work areas.
  3. Use drip pans and/or containers where needed.
  4. Inspect vehicles and equipment for leaks.
  5. Dispose of all waste products properly and recycle whenever possible.
  6. Paint signs near outdoor drains and post signs at sinks to remind employees and others not to pour wastes down drains.
  7. Clean storm drain inlet(s) on a regular schedule and after large storms.
  8. Store idle equipment under cover.
  9. Keep equipment clean and free of excess oil and grease.
  10. Completely drain oil filters before recycling/disposal.
  11. Remove all fluids from retired, wrecked, or salvaged vehicles.
  12. Dispose of per instructions on the container.
  13. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
- OPTIONAL:
14. Use non-toxic chemicals for maintenance when possible.
  15. Reduce or eliminate use of solvents when feasible.

- Label and track the recycling of waste material (e.g. used oil, spent solvents, batteries). Purchase recycled products to support the market for recycled materials.
  - Separate wastes for easier recycling. Keep hazardous and non-hazardous wastes separate, do not mix used oil and solvents, and keep chlorinated solvents separate from non-chlorinated solvents.
6. **Paint signs near outdoor drains and post signs at sinks to remind employees and others not to pour wastes down drains.**
  7. **Clean storm drain inlet(s) on a regular schedule and after large storms.**
  8. **Store idle equipment under cover.**
  9. **Keep equipment clean and free of excess oil and grease.**
  10. **Completely drain oil filters before recycling/disposal.**
  11. **Remove all fluids from retired, wrecked, or salvaged vehicles.**
  12. **Dispose of solvents per instructions on the container.**
  13. **Training**
    1. **Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
    2. **Train employees on proper spill containment and cleanup.**
      - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
      - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
      - BMP IC17 discusses Spill Prevention and Control in detail.
    3. **Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
    4. **Use a training log or similar method to document training.**

**OPTIONAL:**

14. **Use non-toxic chemicals for maintenance when possible.**
  - Use non-caustic detergents instead of caustic cleaning for parts cleaning.
  - Use a water-based cleaning service and have tank cleaned. Use detergent-based or water-based cleaning systems in place of organic solvent degreasers.
  - Replace chlorinated organic solvents with non-chlorinated solvents. Non-chlorinated solvents like kerosene or mineral spirits are less toxic and less expensive to dispose of properly. Check list of active ingredients to see whether it contains chlorinated solvents.
  - Choose cleaning agents that can be recycled.
15. **Reduce or eliminate use of solvents when feasible**

**References**

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. King County Surface Water Management. July 1995. On-line: <http://dnr.metrokc.gov/wlr/dss/spcm.htm>

Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July 1998 (Revised February 2002 by the California Coastal Commission).

Stormwater Management Manual for Western Washington. Volume IV Source Control BMPs. Prepared by Washington State Department of Ecology Water Quality Program. Publication No. 99-14. August 2001.

**For additional information contact:**

City of Orange  
Public Works Department – Surface Water Quality  
714-532-6480

or visit our website:

[www.cityoforange.org](http://www.cityoforange.org)

## IC20. VEHICLE AND EQUIPMENT WASHING AND STEAM CLEANING

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Consider using off-site commercial washing and/or steam cleaning businesses, if feasible.
  2. Use on-site commercial washing and/or steam cleaning businesses capable of disposing of wastewater off-site.
  3. Designate an impervious indoor or outdoor area to be used solely for vehicle and equipment washing/steam cleaning.
  4. Clearly mark the vehicle and equipment washing/steam cleaning area.
  5. Design wash area to properly collect and dispose of wash water and/or effluent generated.
  6. If the area is outdoors, cover the wash area when not in use to prevent contact with rainwater.
  7. Provide trash containers in wash area and empty on a regular basis.
  8. Use hoses with nozzles that automatically turn off when left unattended.
  9. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
- OPTIONAL:
10. Use biodegradable, phosphate-free detergents if possible
  11. Recycle waste materials, whenever possible
  12. If possible, **eliminate or reduce the amount of hazardous materials and waste by substituting non-hazardous or less hazardous material**

### Best Management Practices

1. **Use off-site commercial washing and/or steam cleaning businesses.** These businesses are better equipped to handle and properly dispose of the wash waters.
2. **Use on-site commercial washing and/or steam cleaning businesses capable of disposing of wastewater off-site.** Mobile cleaning businesses must use a leak proof cover device that will catch and contain all contaminated (i.e. chemical additives such as soaps, solvents, or degreasers are used) wastewater runoff for later disposal in a manner that complies with all city, county, state, and federal codes.

**If washing must occur on-site:**

3. **Designate an impervious indoor or outdoor area to be used solely for vehicle and equipment washing/steam cleaning.** Do not conduct oil changes and other engine maintenance in the designated washing area.
4. **Clearly mark the vehicle and equipment washing/steam cleaning area.**

5. **Design wash area to properly collect and dispose of wash water and/or effluent generated.** This applies when engine cleaning is conducted and when chemical additives, solvents, or degreasers are used.
  - Install sumps or drain lines to collect wash water.
  - Construct a berm around the designated area and grade to collect wash water as well as to prevent storm water runoff.
  - Use portable containment (such as ground cover devices) and vacuum collection of wastewater.
  - Inspect and maintain equipment (such as ground cover devices) regularly to ensure proper and effective functioning.

When engine cleaning is not involved, vehicle wash water may be discharged to landscaping or the sanitary sewer in accordance with IC 24.

6. **If the area is outdoors, cover the wash area when not in use to prevent contact with rainwater.**
7. **Provide trash containers in wash area and empty on a regular basis.**
8. **Use hoses with nozzles that automatically turn off when left unattended.**

## 9. Training

1. **Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
2. **Train staff on the proper maintenance of the wash area.**
3. **Train employees on proper spill containment and cleanup.**
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
4. **Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
5. **Use a training log or similar method to document training.**

## OPTIONAL:

10. **Use biodegradable, phosphate-free detergents if possible.**
11. **Recycle waste materials, whenever possible**
  - Recycling is always preferable to disposal of unwanted materials.
  - Separate wastes for easier recycling. Keep hazardous and non-hazardous wastes separate, do not mix used oil and solvents, and keep chlorinated solvents separate from non-chlorinated solvents.
  - Label and track the recycling of waste material (e.g. used oil, spent solvents, batteries).
  - Purchase recycled products to support the market for recycled materials.
12. **If possible, eliminate or reduce the amount of hazardous materials and waste by substituting non-hazardous or less hazardous material:**



- Use non-caustic detergents instead of caustic cleaning for parts cleaning.
- Use a water-based cleaning service and have tank cleaned. Use detergent-based or water-based cleaning systems in place of organic solvent degreasers.
- Replace chlorinated organic solvents with non-chlorinated solvents. Non-chlorinated solvents like kerosene or mineral spirits are less toxic and less expensive to dispose of properly. Check list of active ingredients to see whether it contains chlorinated solvents.
- Choose cleaning agents that can be recycled.

## References

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. King County Surface Water Management. July 1995. On-line: <http://dnr.metrokc.gov/wlr/dss/spcm.htm>

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Stormwater Management Manual for Western Washington. Volume IV Source Control BMPs. Prepared by Washington State Department of Ecology Water Quality Program. Publication No. 99-14. August 2001.

Orange County Stormwater Program. 2001. Mobile Detailing and the Water Quality Act. June.

## IC21. WASTE HANDLING AND DISPOSAL

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Prevent waste materials from coming in direct contact with wind or rain.
  2. Design waste handling and disposal area to prevent stormwater runoff.
  3. Design waste handling and disposal area to contain spills.
  4. Keep waste collection areas clean.
  5. Secure solid waste containers when not in use.
  6. Regularly inspect, repair, and/or replace waste containers.
  7. Do not fill waste containers with washout water or any other liquid.
  8. Use all of a product before disposing of the container.
  9. Segregate wastes by type and label and date wastes.
  10. Label and store hazardous wastes according to hazardous waste regulations.
  11. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
- OPTIONAL:
12. Minimize waste.

### Best Management Practices

1. **Prevent waste materials from coming in direct contact with wind or rain.**
  - Cover the waste management area with a permanent roof.
  - If this is not feasible, cover waste piles with temporary covering material such as reinforced tarpaulin, polyethylene, polyurethane, polypropylene, or hypalon.
  - Cover dumpsters to prevent rain from washing out waste materials.
2. **Design waste handling and disposal area to prevent stormwater runoff.**
  - Enclose the waste handling and disposal area or build a berm around it.
  - Position roof downspouts to direct stormwater away from waste handling and disposal area.
3. **Design waste handling and disposal area to contain spills.**
  - Place dumpsters or other waste receptacles on an impervious surface.
  - Construct a berm around the area to contain spills.
  - Install drains connected to the public sewer or the facility's process wastewater system within these contained areas. **DO NOT** discharge to a public sewer until contacting the local sewer authority to find out if pretreatment is required.
4. **Keep waste collection areas clean.**
  - When cleaning around waste handling and disposal areas use dry methods when possible (e.g. sweeping, use of absorbents).
  - If water must be used, collect water and discharge to the sewer if permitted to do so. **DO NOT** discharge to a public sewer until contacting the local sewer authority to find out if pretreatment is required. If discharge to the sanitary sewer is not allowed, pump water to a tank and dispose of properly.

OPTIONAL:

- Post “No Littering” signs.
- 5. **Secure solid waste containers when not in use.**
- 6. **Regularly inspect, repair, and/or replace waste containers.**
- 7. **Do not fill waste containers with washout water or any other liquid.**
- 8. **Use all of a product before disposing of the container.**
- 9. **Segregate wastes by type and label and date wastes.**
  - Do not mix wastes; this can cause chemical reactions, make recycling impossible, and complicate disposal.
  - Ensure that only appropriate solid wastes are added to solid waste containers.
  - Certain wastes such as hazardous wastes, appliances, fluorescent lamps, pesticides, etc. may not be disposed of in solid waste containers.
- 10. **Label and store hazardous wastes according to hazardous waste regulations.**
  - Consult your local hazardous waste agency or Fire Department for details.
  - Obtain a hazardous waste generator license or permit.

**11. Training**

1. **Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
2. **Train employees in proper waste handling and disposal.**
3. **Train employees on proper spill containment and cleanup.**
  - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
  - Ensure that employees are familiar with the site’s spill control plan and/or proper spill cleanup procedures.
  - BMP IC17 discusses Spill Prevention and Control in detail.
4. **Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
5. **Use a training log or similar method to document training.**

OPTIONAL:

**12. Minimize waste.**

- Recycle materials whenever possible.
- Modify processes or equipment to increase efficiency.
- Identify and promote use of non-hazardous alternatives.
- Reduction in the amount of waste generated can be accomplished using many different types of source controls such as:
  - Production planning and sequencing
  - Process or equipment modification
  - Raw material substitution or elimination
  - Loss prevention and housekeeping
  - Waste segregation and separation

- Close loop recycling
- Establish a material tracking system to increase awareness about material usage. This may reduce spills and minimize contamination, thus reducing the amount of waste produced.

#### **OPTIONAL:**

- ♦ Reduction in the amount of waste generated can be accomplished using many different types of source controls such as:
  - Production planning and sequencing
  - Process or equipment modification
  - Raw material substitution or elimination
  - Loss prevention and housekeeping
  - Waste segregation and separation
  - Close loop recycling

Establish a material tracking system to increase awareness about material usage. This may reduce spills and minimize contamination, thus reducing the amount of waste produced.

#### **References**

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July 1998 (Revised February 2002 by the California Coastal Commission).

#### **For additional information contact:**

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 or visit our website:  
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## IC22. EATING AND DRINKING ESTABLISHMENTS

### Pollution Prevention

Consider pollution prevention measures at all times for improving pollution control. Implementation of pollution prevention measures may reduce or eliminate the need to implement other more costly or complicated procedures.

The following pollution prevention principles apply to most industries:

- Affirmative Procurement - Use alternative, safer, or recycled products.
- Redirect storm water flows away from areas of concern.
- Reduce use of water or use dry methods.
- Reduce storm water flow across facility site.
- Recycle and reuse waste products and waste flows.
- Move or cover potential pollution from storm water contact.
- Provide on-going employee training in pollution prevention.

1. Practice good housekeeping.
2. Clean equipment (floor mats, grease filters, grills, garbage cans, etc.) indoors or in a covered outdoor wash area that is plumbed to the sanitary sewer or in an area that will contain the wash water.
3. Recycle and/or properly dispose of grease and oil.
4. Block the storm drain when hosing or steam/pressure washing outside dumpster areas, sidewalks, and common areas with hot water, soap, or other cleaning agent.
5. If only tap water and no cleaning agents are used sweep area, clean up spills, direct water to vegetative area or collect and properly dispose of it contaminated.
6. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

### Best Management Practices

#### 1. Practice good housekeeping.

- Conduct regular sweeping or vacuuming of outdoor areas: Dry sweep pavement areas including “drive-thru” areas, parking lots, sidewalks, outdoor eating areas and dumpster storage areas frequently.
- Keep outside areas free of trash & debris.
- Do not hose out dumpsters or fill them with liquid waste.
- Regularly inspect, repair, and/or replace dumpsters.

#### 2. Clean equipment (floor mats, grease filters, grills, garbage cans, etc.) indoors or in a covered outdoor wash area that is plumbed to the sanitary sewer.

- Clean equipment in a mop sink if possible (never in a food preparation sink). If there is no mop sink, dedicate an indoor cleaning area where a drain is plumbed to the sanitary sewer.
- Dispose mop water from cleaning floors in a mop sink, toilet or other drain that is plumbed to the sanitary sewer.
- Do not pour wash water outside or into a street, gutter, or storm drain.
- Dispose of all wastewater containing oil and grease in a grease trap or interceptor.

#### 3. Recycle and/or properly dispose of grease and oil. Collect and dispose of concentrated waste oil and grease and disposed of by a certified waste grease hauler. NEVER pour grease or oil into a sink, floor drain, storm drain or dumpster.

4. **Block storm drain(s) when cleaning (hosing or steam/pressure washing) outside dumpster areas, sidewalks, and common areas with hot water, soap, or other cleaning agent.** Collect water/waste and discharge to the sanitary sewer (with approval of the local sanitation district).
5. **If only cold tap water with no cleaning agents are used, then the following must be implemented:**
  - Prior to washing clean and/or sweep all large debris from the area.
  - Clean any fluid spills with an appropriate dry method, such as kitty litter or other absorbent, and dispose of appropriately.
  - To the extent practicable, the wash water must be directed to vegetative or unpaved areas where it would soak into the ground.
  - If wash water appears contaminated (cloudy, colored, presence of suspended solids), additional BMPs such as diversion to the sanitary sewer (with approval) or filtration methods must be implemented.
6. **Training**
  1. **Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.**
  2. **Train employees on proper spill containment and cleanup.**
    - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
    - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
    - BMP IC17 discusses Spill Prevention and Control in detail.
  3. **Establish a regular training schedule, train all new employees, and conduct annual refresher training.**
  4. **Use a training log or similar method to document training.**

## **References**

Carlsbad Jurisdictional Urban Runoff Management Plan. Best Management Practices for Restaurants. City of Carlsbad. February 2002. On-line:  
<http://www.ci.carlsbad.ca.us/cserv/jurmp.html>

Orange County Stormwater Program. 2001. Water Quality Guidelines for Exterior Restaurant Cleaning Operations. Brochure. June.

Orange County Stormwater Program. Good Cleaning Practices Food & Restaurant Industry. Poster. Courtesy of the City and County of LA.

### **For additional information contact:**

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or visit our website:  
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## IC23. FIRE SPRINKLER TESTING/MAINTENANCE

### Best Management Practices (BMPs)

A BMP is a technique, measure or structural control that is used for a given set of conditions to improve the quality of the stormwater runoff in a cost effective manner<sup>1</sup>. Implementation of pollution prevention/good housekeeping measures may reduce or eliminate the need to implement other more costly or complicated procedures. Proper employee training is key to the success of BMP implementation.

1. Conduct activity on non-rainy days and for the shortest duration possible to minimize discharge volume.
2. Inspect flow path and remove all debris and materials prior to testing or maintenance.
3. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
4. Provide on-going employee training in pollution prevention.

Provided below are specific procedures associated with this activity. In order to meet the requirements for medium and high priority facilities, the owners/operators must select, install and maintain appropriate BMPs on site. Since the selection of the appropriate BMPs is a site-specific process, the types and numbers of additional BMPs will vary for each facility.

### Best Management Practices

1. **Contain flows onsite** and/or direct the water flows to landscaped or green areas whenever possible and safe to do so without causing damage or erosion.
2. **Divert sprinkler system flows to the sewer**, when practicable and with the permission of the local sewer agency. Refer to fact sheet **IC24 Wastewater Disposal** for guidance on appropriate methods for disposal of wash water to the sanitary sewer.
3. **Training**
  - a. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
  - b. Establish a regular training schedule, train all new employees, and conduct annual refresher training.
  - c. Use a training log or similar method to document training.

### References

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser & McKee, Larry Walker Associates for California Stormwater Quality Association. January 2003.

### For additional information contact:

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or visit our website:  
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<sup>1</sup> EPA " Preliminary Data Summary of Urban Stormwater Best Management Practices"  
IC23 Fire Sprinkler Testing/Maintenance

## IC24. DISPOSAL OF WASTEWATER GENERATED BY MOBILE BUSINESSES & OUTDOOR ACTIVITIES

### Best Management Practices (BMPs)

A BMP is a technique, measure or structural control that is used for a given set of conditions to improve the quality of the stormwater runoff in a cost effective manner.<sup>1</sup> Implementation of pollution prevention/good housekeeping measures may reduce or eliminate the need to implement other more costly or complicated procedures. Proper employee training is key to the success of BMP implementation.

Purpose of this BMP:

1. Dispose of wastewater according to the instructions below. No wastewater shall be disposed of into the storm drain system.
2. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
3. Provide on-going employee training in pollution prevention.

Orange County cities and the County of Orange are mandated under NPDES Permits issued by the California Regional Water Quality Control Boards to prohibit the discharge of pollutants and non-storm water runoff into the storm drain system. Therefore, untreated wastewater (including wastewater from mobile detailing, pressure washing, steam cleaning, carpet cleaning, or similar activities) shall **not** be discharged to the storm drain system. In an effort to help businesses comply with the NPDES Permit, the cities of Orange County and the County of Orange have developed the following best management practices (BMPs) for the proper disposal of wastewater generated by mobile business operations and outdoor activities.

### 1. General Best Management Practices (BMPs) and Preparation of Work Area

#### ***What should I do prior to conducting a job?***

The BMPs presented below are intended to help you comply with local and state regulations that prohibit wastewater from entering the storm drain system. The following BMPs must be followed by all mobile businesses or outdoor activities of a fixed business that generate wastewater, regardless of the type of surface to be cleaned or cleaning operation to be performed:

- Evaluate the chemicals and compounds used for cleaning and reduce or eliminate the use of those that contain solvents, heavy metals, high levels of phosphates, or very high/very low pH that exceeds the local sewerage agency requirements.
- Walk through the area where the cleaning will occur prior to the start of the job and identify all area drains, yard drains, and catch basins where wastewater could potentially enter the storm drain system.
- Block/seal off identified drains or catch basins using sand bags, plugs, rubber mats, or temporary berms.
- Collect all trash and debris from the project area and place them in a trash bin for disposal.

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<sup>1</sup> EPA " *Preliminary Data Summary of Urban Stormwater Best Management Practices*"



- Sweep all surface areas prior to cleaning to minimize the amount of suspended solids, soil, and grit in wastewater.
- Identify the wastewater disposal option that will be used. Whether you are discharging to landscaping or the sanitary sewer, it is necessary that you meet all the requirements identified below.
- Conduct mobile washing in accordance with all operating instructions provided by the equipment supplier. Maintain equipment in good working order and routinely check and test all safety features.

### ***What methods can be used to collect wastewater at a site?***

There is no specific containment method that must be used for wastewater collection/diversion. However, the system must be adequately designed so that the wastewater does not flow into an on-site or off-site storm drain inlet. All mobile and existing businesses should use one of the following methods, regardless of the surface to be cleaned or the type of cleaning operation to be performed:

- Portable containment areas can be made from waterproof tarps, heavy-duty plastic, or rubber matting equipped with berms to prevent wastewater from running into storm drain inlets or discharge off-site. Materials that can be used for berms include sand bags or water-filled tubing. Whatever containment material is used, it must seal tightly to the ground so that no wastewater can pass under or over the berms.
- When power washing smaller pieces of equipment, containment devices to use may include portable vinyl swimming pools, plastic 55-gallon drums on casters, and flat metal or plastic containment pads.
- Depending on the volume of wastewater generated, it may be necessary to use a pump system, which may range in size from a wet-dry vacuum to a sump pump. A natural basin from which to pump can also be set up by establishing a slightly sloped containment area.
- Stationary or more permanent containment areas can be constructed with cement. Berms and pump systems may be used to contain wastewater and divert it to a holding tank.
- Commercial wastewater collection systems are also available for power washing. These systems can range from portable wash pits to self-contained water recycling systems. A list of companies selling this type of equipment can usually be found in the telephone book under "Pressure Washing Services and Equipment".
- Storm drain inlet covers can be made of an impermeable barrier such as a heavy-duty vinyl or plastic secured in place with materials such as concrete blocks, gravel bags, or sand bags. Storm drain inlet covers may also be available through commercial vendors.

**Note:** Blocking storm drain catch basin inlets in the public right-of-way (i.e. public street, or other publicly owned facility) is prohibited as a method of containment, unless expressly permitted by the municipality typically through an encroachment permit process. Wastewater should be contained on-site prior to entering the public right-of-way. Contact the local municipality for more information.

## **2. Wastewater Disposal Options**

### **How can I dispose of my wastewater?**

Wastewater is not allowed in the storm drain or street. However, the wastewater may be discharged to landscaping or the sanitary sewer, or it may be picked up and disposed of by a waste hauler. Please note that if you are unsure of the types of pollutants in the wastewater, laboratory analysis may be required to establish the proper disposal method.

Choose one of the three wastewater disposal options listed below based upon the following conditions:

### **Option 1: Discharge Wastewater to a Landscaped Area**

The wastewater must meet the following requirements if discharging to landscaping:

- The pH must be between 6.5 and 8.5. This can be checked quickly and easily through the use of pH paper test strips.
- The wastewater may not contain:
  - Toxic materials.
  - Degreasers.
  - Pollutants that may create a fire or explosion hazard (e.g., gasoline, diesel).
  - Solid or viscous pollutants in amounts sufficient to cause obstruction or blockage of flow.
  - Petroleum oil, or other products of mineral oil origin.
  - Paint.
- In addition, wastewater from cleaning food-related vehicles or areas, vehicle exteriors or engines, and buildings with lead- or mercury-based paint should **not** be discharged to landscaping.
- Filter the wastewater if it contains debris, fibers, or other suspended solids.
- Ensure that the wastewater is fully contained within the landscaped area and will fully infiltrate into the ground prior to leaving the job site.

### **Option 2: Discharge Wastewater to the Sanitary Sewer**

*The wastewater must comply with the following conditions if disposed of into the sanitary sewer system:*

- The wastewater temperature must be less than 140°F (60°C).
- The pH must be between 6.0 and 10.0. This can be checked quickly and easily through the use of pH paper test strips. Adjust the wastewater to a pH that is between 6.0 and 10.0. Dilution is not an effective or acceptable pretreatment.
- The wastewater quality must comply with the local sanitary sewer district's discharge limits and requirements. The wastewater should not contain large volumes or concentrations of:
  - Pollutants that may create a fire or explosion hazard (e.g., gasoline, diesel).
  - Solid or viscous pollutants in amounts sufficient to cause obstruction or blockage of flow.
  - Petroleum oil, non-biodegradable cutting oil, or other products of mineral oil origin.
  - Oil based paint.

Prior to surface washing, you must exercise any reasonable means to eliminate large volumes or concentrations of the above listed pollutants. Common methods to eliminate standing pools of pollutants include the placement of absorbent to adsorb the pollutant, dry-sweeping the absorbent, and disposing of the absorbent properly.

- No wastewater shall be discharged into any publicly owned sewer manholes without the sewer agency's written authorization.
- Filter the wastewater if it contains debris, fibers, or other suspended solids.
- If chemicals (e.g., solvents or acids) are used during the cleaning process, additional precautions may be needed. Contact your local sanitation district to learn if wastewater containing these chemicals requires pretreatment before discharge to the sanitary sewer or if it needs to be treated as hazardous waste.
- Ensure that the wastewater is released at a flow rate and/or concentration, which will not cause problems, pass through, or interference with the sewerage facilities. Generally, if you are using a privately owned cleanout, sink, toilet, or floor drain at a client's property, and the flow does not backup, the flow amount will not cause problems, pass through, or interference with the sewerage facilities.
- Utilize an approved discharge point such as:
  - Privately owned cleanout (or sink, toilet or floor drain), oil/water separator, or below ground clarifier at the client's property where the wash water is generated;
  - Privately owned industrial sewer connection at the client's property where the wash water is generated;
  - Waste hauler station at sanitary sewer facility; and
  - Any other disposal points approved by the sanitary sewer facility.
- Maintain a logbook of all discharges.

### **Option 3: Dispose of Wastewater Using a Professional Hazardous Waste Hauler**

*Wastewater that can be characterized in any of the following ways must be disposed of using a hazardous waste hauler:*

- Is corrosive (as indicated by a pH value of less than 5.5) or caustic (as indicated by a pH value of greater than 10.0).
- Contains a pollutant that may create a fire or explosion hazard (e.g., gasoline, diesel fuel).
- Contains solid or viscous pollutants in amounts sufficient to cause obstruction or blockage of flow.
- Contains petroleum oil, non-biodegradable cutting oil, or other products of mineral oil origin.
- Contains other potential hazardous wastes. Examples of other potential hazardous wastes include:

- Wastewater generated from power washing old paint off a building. Paint chips need to be collected, evaluated, and disposed of properly. Paint chips cannot be left on the ground at the job site. Old paint stripped off commercial buildings may contain metals (e.g., lead, chromium, cadmium, and mercury), causing it to be a regulated hazardous waste.
- Wastewater used in conjunction with certain solvents and degreasing agents, which may cause the wastewater to be classified as a listed or characteristic hazardous waste.

*You must comply with the following conditions if a hazardous waste hauler is used:*

- Ensure that the waste hauler is certified by the appropriate sanitary sewerage agency and the Orange County Health Care Agency, is Hazardous Waste DOT certified, and is complying with applicable discharge regulations, which may include obtaining necessary permits and conducting water quality monitoring requirements. Please contact the Orange County Health Care Agency and/or the city fire department for specific requirements.
- Identify the wastes involved and determine if a hazardous waste has been generated.
- Maintain a logbook of all discharges and hazardous waste manifests, if applicable.

**For additional information contact:**

Local Sewering Agency  
 Orange County Sanitation District  
 714-962-2411  
 or visit the website:  
[www.ocsd.com](http://www.ocsd.com)

City of Orange  
 Public Works Department – Surface Water Quality  
 714-532-6480  
 or visit our website:  
[www.cityoforange.org](http://www.cityoforange.org)

## Exhibit A-9.III

City of Orange Inspection Procedures

Inspection Form & Checklist

## **INDUSTRIAL/COMMERCIAL INSPECTION PROCEDURES**

This attachment provides the City of Orange staff with a step by step process for conducting industrial and commercial inspections. In addition to these general inspection procedures, staff should also consult the Legal Authority (Section 4) and Illegal Discharges/Illicit Connection (Section 10) sections of the DAMP as well as the Enforcement Consistency Guide for specific guidance on the legal authorities and enforcement remedies available for non-compliant sites.

### **1.0 INSPECTION PREPARATION**

#### STEP 1: Establish purpose

The inspector needs to establish the purpose and scope of the inspection and review all pertinent background information. For a compliance inspection, the inspector should contact the industry officials to schedule the inspection. The inspector may also request that relevant documents be available for on-site review (e.g., SWPPP, site plans, spill response plan, etc).

#### STEP 2: File review

The inspector should review any existing files or information for the facility, which may include past complaints, permits and/or monitoring data.

#### STEP 3: Database review

The inspector should also review the inventory database to identify the SIC code (for industrial facilities) and determine what type of industrial activity and pollutants may be expected. The inventory database will indicate if the facility has or should have filed a Notice of Intent (NOI) to operate under the statewide General Industrial Permit. The database will also identify the watershed and relative facility information such as owner, address, WDID number, etc. This information should be compared against the most recent available information on City databases (ownership, business license, etc.).

### **2.0 APPROACHING THE SITE**

#### STEP 1: Observations

Before entering the facility grounds, the inspector should make note of the following:

- Nearby conveyances or water bodies;
- Visible discharge points along the perimeter of the site;
- Any unusual discoloration of adjacent areas;
- Outdoor areas of intensive industrial activity; and
- Signs of recent additions or remodeling.

### 3.0 FACILITY INSPECTION

#### STEP 1: Entry

The inspector must present proper credentials and request to meet with the appropriate facility official(s) to discuss the inspection scope and objectives. If the inspector is denied entry into the facility, the inspector must withdraw from the premises and contact the NPDES Program Manager to determine if a warrant should be sought to obtain entry.

#### STEP 2: Opening conference

After authorized entry, the inspector will discuss the inspection scope and objectives. The inspector should attempt to verify and update the facility's inventory information, such as:

- Changes in ownership or operations
- Clarification of observations noted before entering the facility, (any changes in activities, materials, or physical structures should also be reflected in the site's Stormwater Pollution Prevention Plan (SWPPP).
- Informal review of the SWPPP elements:
  - Site map;
  - List of industrial activities, types of pollutants, and existing non-structural and structural BMPs to reduce these pollutants in stormwater discharge;
  - Pollution prevention methods;
  - Description of type and location of non-storm water discharges, both authorized and unauthorized; and
  - Inventory of materials, including storage and loading/unloading areas.
- Review of any existing stormwater monitoring data.

#### STEP 3: Outdoor walk-through

The inspector and responsible facility official(s) should walk through all outdoor areas and observe activities, wherever it is safe to do so. Typical areas of activity that might impact storm water quality are outlined in the BMP fact sheets included in **Exhibit A-9.II**.

The inspector should attempt to gain a clear understanding of how runoff leaves the facility site by observing all portions of the storm water conveyance system and site grading, where possible and safe. This includes inlets, outlets, open channel conveyances such as ditches, etc.

The inspector must document the observed conditions, including any BMPs being implemented, and must assess the facility's impact on storm water quality from the outdoor activities. Impact includes the facility's *potential* to discharge and the facility's *actual* discharge, which are further described below. Photographs of the general area and areas with the potential to impact stormwater quality, not containing proprietary equipment or processes, should be photographed for inclusion in the report.

#### STEP 4: Indoor walk-through

Review indoor activities and areas to ensure that pollutants are not spilled, dumped, or allowed to flow outdoors. The inspector must document the observed conditions, including any BMPs being implemented, and assess the facility's impact on stormwater quality from the indoor activities.

#### STEP 5: Assess impact on storm water quality

The inspector should attempt to determine the facility's impact on storm water quality at two levels: the facility's potential to/for discharge and the facility's actual discharge. The difference between potential and actual is determined by whether BMPs are effectively applied. For example, a facility that stores all of its machinery and heavy equipment outdoors or performs certain activities outdoors has a high potential to impact storm water runoff. However, if equipment is well maintained and covered when not in use, the level of pollutant exposure should be minimized and the actual impact of the facility upon storm water runoff quality is greatly reduced.

The inspector should evaluate the following three things for the inspection report:

- 1) What is the facility's potential to impact storm water quality and non-storm water discharges from exposure to on-site pollutants? Identify areas or activities that require BMPs to be applied to reduce or eliminate potential pollutant discharges to storm drains. If BMPs are in place, determine what the impact would be if BMPs failed or were no longer applied.
- 2) Are BMPs effectively applied so that exposure to pollutants is minimized and non-storm water discharges are eliminated? For each of the facility's areas of activity, observe whether BMPs are in place and effective. The inspector may encounter situations where BMPs are in place but are not effectively applied. The inspector will use their best professional judgment on the imminent impact of the facility and decide how much time to allow the owner/operator to correct the problem.
- 3) What types of impact does the facility have on storm water quality? Clearly describe on the inspection report whether the impact is from: 1) pollutant exposure to runoff; and/or 2) non-storm water intentionally or accidentally discharged to storm drains.

#### STEP 6: Document inspection activities

As the inspector observes the outdoor and indoor activities at the facility, they should also take notes and photos (with permission) as appropriate. The inspector should document the locations and types of BMPs that are currently being implemented and assess areas where BMPs should be implemented in the future. The inspector may also collect samples of illicit discharges or storm water from the facility as appropriate.



An inspection form has been provided for use in documenting the above information during a site inspection. This form will be used to maintain consistency in inspection efforts; however, the form may need to be modified to address specific facility or city needs.

#### STEP 7: Closing Conference

After the walk-through of the facility, the inspector should collect any missing or additional information. The inspector may review other documentation to look for indications of discharge problems, such as monitoring data, the Hazardous Materials Release Response Plan and inventory, permits, manifests, logs and other records required of the facility by local, state or federal laws in order to conduct operations or business on the premises. The inspector should review the inspection findings with the facility representative and provide him with a copy of the inspection report. Any additional required follow-up inspections should be discussed with the facility representatives at this time.

The inspector may also provide educational materials, applicable BMP fact sheets, and any other technical and regulatory information to assist facilities in compliance measures.

### **4.0 RECORD KEEPING**

The inspector will update the inventory, prioritization worksheet and complete the inspection report upon return to the office. The inspection report should contain at least the following sections:

- General information to update the inventory and prioritization;
- Assessment of BMP implementation;
- Documentation of violations and time frame for correction; and
- Signature and confirmation.

Follow-up inspections can then be done as needed in order to confirm BMP implementation and compliance.



# INDUSTRIAL - COMMERCIAL FACILITY INSPECTION

CITY OF ORANGE  
National Pollution Discharge Elimination System (NPDES)

Public Works Department  
637 W. Struck Ave., Orange CA 92867  
(714) 532-6480

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Inspector(s): \_\_\_\_\_

☐ Initial Inspection ☐ Routine Inspection ☐ Follow-up Inspection ☐ Response to Complaint

## I. GENERAL INFORMATION

Facility Name: \_\_\_\_\_ Site Address: \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Contact Phone: \_\_\_\_\_  
SIC Code: \_\_\_\_\_ SIC Code Description: \_\_\_\_\_  
Primary Business Activity: \_\_\_\_\_  
Facility Type: ☐ Industrial ☐ Commercial Priority Status: ☐ High ☐ Medium ☐ Low  
Is the facility covered under a storm water permit? ☐ Individual NPDES ☐ General NPDES WDID# \_\_\_\_\_  
Does the facility have a Storm Water Pollution Prevention Plan (SWPPP) Onsite? ☐ Yes, dated: \_\_\_\_\_ ☐ No ☐ N/A  
City of Orange Business License Number: \_\_\_\_\_

## II. ACTIVITIES / BEST MANAGEMENT PRACTICES (BMP) ASSESSMENT

General Facility Description:

Nearby conveyances and/or visible off-site discharge points:

Outdoor walk through (note activities and any BMPs in use):

Indoor walk through (note activities and any BMPs in use):

## III. PRIORITIZATION VERIFICATION

Industrial/Commercial

Type of Activity – Percent of activities outdoors and uncovered: ☐ <25% ☐ 25-50% ☐ 50-75% ☐ >75%

Discharge Potential – Overall implementation of BMPs: ☐ Fully Implemented ☐ Partially Implemented ☐ None or Unknown

Non-stormwater Discharges: ☐ None observed / no evidence of / no sources noted  
☐ Sources observed, but BMPs in place  
☐ Sources observed, no BMPs in place, but no discharge  
☐ Observed discharges / evidence of discharges / no BMPs

Facility size – Approximate size of impervious area: ☐ <5,000 sq. ft. ☐ 5,000-100,000 sq. ft. ☐ >100,000 sq. ft.

Material used – Amount of raw material kept indoors or properly covered outdoors: ☐ All ☐ Most ☐ Some ☐ Few / none

Waste Generated: ☐ N/A ☐ Not generated or disposed of properly ☐ Generated and not disposed properly



**INDUSTRIAL - COMMERCIAL FACILITY INSPECTION**  
**CITY OF ORANGE**  
National Pollution Discharge Elimination System (NPDES)

Public Works Department  
637 W. Struck Ave., Orange CA 92867  
(714) 532-6480

**IV. VIOLATIONS**

☐ No Violations Noted During Inspection

☐ Illegal Discharge Noted: \_\_\_\_\_

☐ Illegal Connection(s) Noted: \_\_\_\_\_

☐ Other: \_\_\_\_\_

If this is a follow-up inspection was compliance obtained? ☐ N/A ☐ Yes ☐ No

**V. CORRECTIVE ACTIONS**

☐ Recommended Corrective Action(s):

☐ Completion Date For Corrective Actions: \_\_\_\_\_

Follow-up Inspection Required: ☐ Yes ☐ No

**NOTE:**

Failure to correct noted deficiencies will result in enforcement action by the City of Orange per Municipal Code Chapter 7.01.

**VI. BMP INFORMATION PROVIDED**

<input type="checkbox"/> PE 1 - Food Service	<input type="checkbox"/> PE 13 - General Business	<input type="checkbox"/> IC - 1 Airplane Maintenance	<input type="checkbox"/> IC - 13 Over Water Activities
<input type="checkbox"/> PE 2 - Do you... Storm Drain	<input type="checkbox"/> PE 14 - Landscaping/Gardening	<input type="checkbox"/> IC - 2 Animal Handling	<input type="checkbox"/> IC - 14 Paint., Fin., & Coating
<input type="checkbox"/> PE 3 - House Hold Tips	<input type="checkbox"/> PE 15 - Permitted Lot/Pool Drain	<input type="checkbox"/> IC - 3 Building Maintenance	<input type="checkbox"/> IC - 15 Park & Storage Area Maint.
<input type="checkbox"/> PE 4 - Pest Control Products	<input type="checkbox"/> PE 16 - Pet Care	<input type="checkbox"/> IC - 4 Carpet Cleaning	<input type="checkbox"/> IC - 16 Pool & Fountain Cleaning
<input type="checkbox"/> PE 5 - Pool Maint.	<input type="checkbox"/> PE 17 - Concrete/Mortar	<input type="checkbox"/> IC - 5 Concrete & Asphalt	<input type="checkbox"/> IC - 17 Spill Prevention & Clean Up
<input type="checkbox"/> PE 6 - House Haz Waste	<input type="checkbox"/> PE 18 - Gas Station (Poster)	<input type="checkbox"/> IC - 6 Cont. or Erodible Surface	<input type="checkbox"/> IC - 18 Vehicle & Equip. Fueling
<input type="checkbox"/> PE 7 - Maint... Business	<input type="checkbox"/> PE 19 - Auto Repair (Poster)	<input type="checkbox"/> IC - 7 Landscape Maintenance	<input type="checkbox"/> IC - 19 Vehicle & Equip. Maint. & Rep.
<input type="checkbox"/> PE 8 - Sewage Reference	<input type="checkbox"/> PE 20 - Food & Rest. (Poster)	<input type="checkbox"/> IC - 8 Nurseries & Greenhouses	<input type="checkbox"/> IC - 20 Vehicle & Equip. Wash/Steam
<input type="checkbox"/> PE 9 - Waste Oil Collection	<input type="checkbox"/> PE 21 - The Ocean Begins	<input type="checkbox"/> IC - 9 Outdoor Drain. from Indoor	<input type="checkbox"/> IC - 21 Waste Handling & Disposal
<input type="checkbox"/> PE 10 - Car Wash	<input type="checkbox"/> Other	<input type="checkbox"/> IC - 10 Outdoor Load/Unloading	<input type="checkbox"/> IC - 22 Eating & Drinking Establishment
<input type="checkbox"/> PE 11 - Carpet Cleaning	<input type="checkbox"/> Other	<input type="checkbox"/> IC - 11 Out. Process Equip. O&M	<input type="checkbox"/> IC - 23 Fire Sprinkler Testing/Maint.
<input type="checkbox"/> PE 12 - Ext. Restaurant	<input type="checkbox"/> Other	<input type="checkbox"/> IC - 12 Out. Stor. of Raw Materials	<input type="checkbox"/> IC - 24 Wastewater Disposal

**VII. SIGNATURES**

Facility Representative Name (Print): \_\_\_\_\_

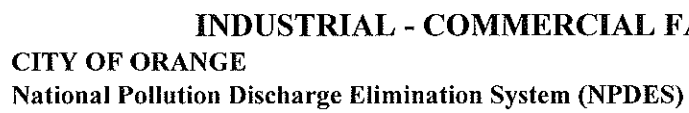
Facility Representative Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inspector Name (Print): \_\_\_\_\_

Inspector Signature: \_\_\_\_\_

Date: \_\_\_\_\_



**Public Works Department**  
**637 W. Struck Ave., Orange CA 92867**  
**(714) 532-6480**

## DATE: \_\_\_\_\_

[illegible]

Representative:

## CHECKLIST FOR FIELD INSPECTIONS FOR NPDES STORMWATER COMPLIANCE

Name of Inspector: \_\_\_\_\_

Date: \_\_\_\_\_

Facility Name: \_\_\_\_\_

Address: \_\_\_\_\_

Y N N/A

- |                          |                          |                          |   |
|--------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are the outside areas kept neat and clean? Exposed materials covered?   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is the area clear of excessive dust from industrial practices?  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is there evidence of leaks and drips from equipment and machinery?  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are catch basins, storm conveyance pipes, grease traps, stormwater treatment facilities, and sump conditions cleaned at appropriate intervals?                        |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are good housekeeping procedures being followed and enforced in appropriate locations?  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are vehicle fueling/maintenance activities indoors or contained in a designated area to prevent accidental discharges? Is outdoor area paved and bermed?              |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are containers for chemical substances/temporary storage of wastes labeled? Are they above ground with secondary containment?   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is vehicle/equipment washing done in designated area so wash water is discharged to sewer or bermed to contain wash water from going off site? Sewer agency approval? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is there a spill prevention/response protocol?  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are appropriate spill containment and cleanup materials kept on-site and in convenient locations?   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are cleanup procedures for spills available for reference to all employees and followed regularly and correctly?  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are used absorbent materials removed and properly disposed of in a timely manner?   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is there primary and secondary containment of materials, with correct labeling and appropriate for each type (per CalOSHA)? Is area paved?                            |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are unpaved outdoor areas protected from water and wind erosion?  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are the floor mats, mop water and any other item containing grease cleaned in a contained area to prevent entrance into the storm system or public right-of-way?      |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is the facility covered under the General Permit?   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Does the facility have a SIC code describing the current activity?  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are processing areas paved/covered? Berms constructed?  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Do storage tanks have primary/secondary containment?  |

Areas of concern, if any? \_\_\_\_\_

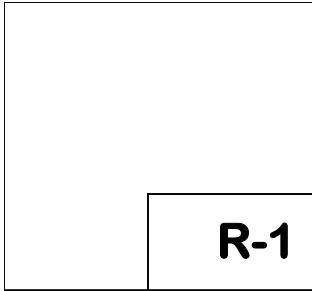
\_\_\_\_\_

\_\_\_\_\_

Re-inspection date (if applicable): \_\_\_\_\_

## Exhibit A-9.IV

Residential BMP Facts Sheets



## **AUTOMOBILE REPAIR AND MAINTENANCE**

Automobile repair and maintenance activities have the potential to contribute directly to storm drain systems primarily through spills or the dumping of waste fluids being conveyed to the storm drain. Automotive fluids, such as oils, greases, and solvents, are hydrocarbon based, and may contain metals, chlorinated hydrocarbons, and other toxic compounds. Removal of caked dirt and grime from an automobile increases the sediment load to the storm drain system. Pollution prevention activities are used to prevent spills from occurring in locations where runoff will carry the spill to the storm drain.



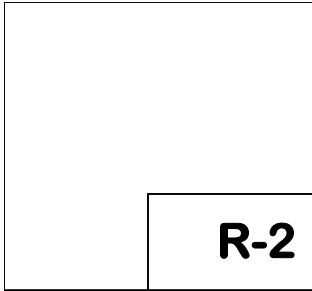
Think before leaving anything in the storm drain. The ocean starts at your front door.

### **Designated BMPs**

- Recycle used oil and antifreeze by taking them to service stations and other recycling centers. Never pour oil in storm drains or areas draining to the storm drain.
- Perform automobile repair and maintenance under a covered area. Do not perform repair and maintenance activities during periods of precipitation.
- Immediately clean up and contain any release of fluids. Dispose of all waste and adsorbent materials properly.
- Store hazardous materials and wastes (including, but not limited to, fluids, solvents, parts containing fluids, batteries) indoors, under cover, or in watertight containers.
- Perform automobile maintenance and repairs over impervious surfaces such as concrete, so spills and waste material should be readily cleaned up.
- Use drip pans, plastic sheeting, or equivalent to contain spills and waste material from reaching storm drains.
- Dispose of cleaning solvents at the designated hazardous waste center.

### **Optional BMPs**

- Do not buy fluids containing target compounds (e.g. degreasers containing PERC).
- Substitute non-chlorinated cleaning solvents (e.g. kerosene) for chlorinated solvents.
- Monitor parked or stored vehicles and equipment for leaks and place pans under leaks to collect fluids for proper disposal or recycling.



## **AUTOMOBILE WASHING**

Automobile washing activities have the potential to contribute to storm drain pollutant loads because road dust washed from vehicles may contain metals and hydrocarbons. Any leaking fluids washed from the automobile may be carried to the storm drain by the wash water. Detergents used for automobile washing may contain phosphorus and foaming agents, which contribute to the eutrophication of receiving waterbodies.

Think before leaving anything in the storm drain. The ocean starts at your front door.

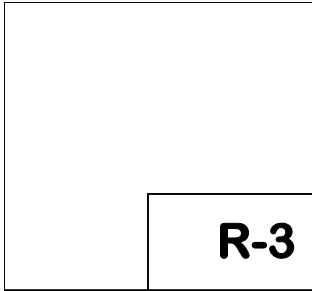
### **Designated BMPs**

- Vehicles should be washed over pervious surfaces such as lawns and gravel areas where feasible.
- Excess wash water containing detergents should not be dumped into the storm drain. Excess wash water should be disposed of into the sanitary sewer (i.e. via sink, or toilet) or onto a pervious surface allowing complete infiltration.
- Avoid the use of “hose off” engine degreasers.
- When possible, use commercial wash facilities maintaining proper BMPs and water recycling.
- Avoid acid-based wheel cleaners.
- Shake floor mats into trashcan or vacuum to clean. Do not shake over ground.

### **Optional BMPs**

- Choose soaps, cleaners, or detergents labeled “non-toxic”, “phosphate free”, or “biodegradable”. Vegetable and citrus-based products are typically safest for the environment.
- Turn off water when not actively washing down automobile.
- Establish neighborhood wash areas, where runoff is properly controlled and managed.
- Divert runoff from automobile washing to a grassy surface large enough to contain and allow complete infiltration.





## **AUTOMOBILE PARKING**

Parked automobiles may contribute pollutants to the storm drain because poorly maintained vehicles may leak fluids containing hydrocarbons, metals, and other constituents. In addition, heavily soiled automobiles may drop clods of dirt onto the parking surface, contributing to the sediment load when runoff is present. During rain events, or wash-down activities, the pollutants may be carried into the storm drain system.

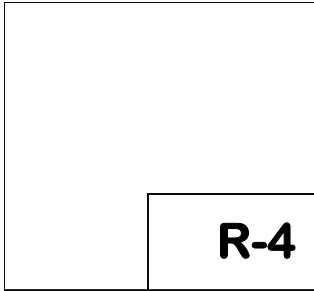
Think before leaving anything in the storm drain. The ocean starts at your front door.

### **Designated BMPs**

- Residents will be required to remove vehicles from the street during designated street sweeping/cleaning times.
- Residents are encouraged to place a pan or similar collection device under their automobile if it is leaking fluids, until such time as the leak may be repaired.
- Use dry cleaning methods to remove any materials deposited by vehicles (e.g. adsorbents for fluid leaks, sweeping for soil clod deposits).
- Residents are encouraged to perform routine maintenance on their automobiles to minimize fluid leaks, and maximize efficiency.

### **Optional BMPs**

- Residents are encouraged/required to park automobiles over permeable surfaces (e.g. gravel, or porous cement).
- Limit vehicle parking to covered areas.



## HOME AND GARDEN CARE ACTIVITIES

### HOME CARE

Many hazardous materials may be used in and around residences during routine maintenance activities (such as: oils, paints, cleaners, bleaches, pesticides, glues, solvents, and other products). Improper or excessive use of these products can increase the potential for pollutants to be transported to the storm drain by runoff.

Think before leaving anything in the storm drain. The ocean starts at your front door.

### Designated BMPs

- Painting equipment should not be cleaned in such a manner to allow runoff to reach the storm drain. Paint should not be allowed to enter the storm drain.
- Rinse off cement mixers and cement laden tools in a contained washout area that cannot flow to your lot drain. Dispose of dried waste concrete in household trash.
- If safe, contain, clean up, and properly dispose all household hazardous waste spills (see household hazardous waste factsheet). If an unsafe condition exists, residents should call 911 to activate the proper response team.
- Household hazardous materials must be stored indoors or under cover, and in closed and labeled containers.
- Household wash waters (e.g. washer machine effluent, mop water, etc.) may not be disposed of in a manner to allow them to reach the storm drain.
- Pool and spa water may be discharged to the storm drain if residual chlorine is less than 0.1 mg/L, the pH is between 6.5 and 8.5, and the water is free from any unusual coloration. (Call 714-834-6107 to obtain information on a pool drain permit).
- Pool filter media should not be allowed to enter the storm drain system.

## Optional BMPs

- Increase education and outreach component of program to promote:
  - Purchasing hazardous products as needed and only in amounts required.
  - Sharing of unused portions of hazardous chemicals with neighbors.
  - Never disposing of hazardous materials by disposing in trash or in sanitary sewer. Dispose of hazardous materials at the proper hazardous waste center.
  - Never dispose of hazardous materials into a septic system.
- Repair window and door screens and seal any cracks in walls
- Securely cover trashcans.

## GARDEN CARE

Garden activities may contribute to storm sewer pollutant loads via soil erosion, green waste, fertilizer and pesticide use.

Plant and garden care activities such as landscape maintenance, fertilization, and pesticide application have the potential to discharge significant quantities of pollutants to the storm drain system. Nonvegetated surfaces may allow for significant erosion leading to high sediment loading to the storm sewer. Other pollutants such as pesticides may adsorb onto the soil particles and be carried via erosion to the storm sewer. Excess fertilizer and pesticide pollutants from over application may be carried to the storm sewer by dissolving in irrigation runoff water or rainwater. Green wastes contain organic matter, are suspended solids entrained in runoff, and may have adsorbed fertilizers and pesticides.

Excessive irrigation is often the most significant factor in home and garden care activities contributing to storm sewer pollutant loads. Pollutants may dissolve in irrigation water and carried to the storm sewer, or particles and materials coated with fertilizers and pesticides may be suspended in the irrigation flow and carried to the storm sewer.

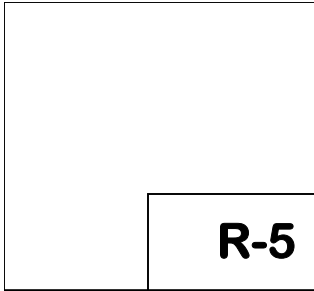
## Designated BMPs

- Irrigation systems must be properly adjusted to reflect seasonal water needs.
- Minimize the use of pesticides and fertilizers. Do not apply chemicals if it is windy or about to rain.
- Spills of gardening chemicals, fertilizers, or soils on non-porous surfaces must be properly cleaned up and disposed.
- Lawn and garden care products and machinery must be stored in closed labeled containers, in covered areas, or off-ground and under protective tarps.

- Household hazardous waste must be properly disposed. Hazardous material may not be disposed of in the trash, or on any surface hydraulically linked to the storm sewer.
- Avoid unnecessary pesticide use. Do not apply pesticides during windy or precipitation conditions.

#### Optional BMPs

- Promote xeriscaping and use of drought and insect resistant landscaping.
- Keep wood and leaves away from house walls.
- Do not leave food (human or pet) outside overnight.
- Remove fruit and garden waste.
- Cultivate garden often to control weeds
- Encourage the use of integrated pest management (IPM). Planting pest repelling plants (e.g. Marigolds) around gardens to reduce the potential of pest invasion, hence reducing the need for pesticides. Pest eating insects (e.g. ladybugs) may be purchased and applied to gardens/landscaping to reduce the need for pesticides. The municipality should provide links to IPM sites and informational packets.
- Set mower height to remove no more than 1/3 total grass height, or 1 inch total, whichever is less, for each mowing.
- Compost landscaping waste to enrich topsoil.
- Require all nonvegetated surfaces to be covered in a manner to prevent erosion.
- Clean up garden debris. Remove weak or dying plants.



## DISPOSAL OF PET WASTES

Pet wastes left in the environment may introduce solids, bacteria, and nutrients to the storm sewer during periods of runoff. The type and quantity of waste will dictate the proper disposal method. Small quantities of waste are best disposed with regular trash or flushed down a toilet. Large quantities of wastes from herbivore animals may be composted for subsequent use or disposal to landfill. Pick up after your pet! It's as easy as 1-2-3. 1) Bring a bag. 2) Clean it up. 3) Dispose of it properly (toilet or trash).

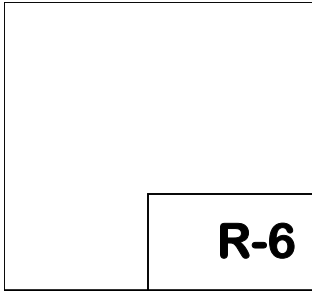
Think before leaving anything in the storm drain. The ocean starts at your front door.

### Designated BMPs

- Pet wastes should not be deposited in storm drains, or in a manner allowing pollutants in pet waste to be carried to the storm drain during periods of runoff. Pet waste should be disposed of in the regular trash, flushed down a toilet, or composted as type and quantities dictate.
- All pet wastes should be picked up and properly disposed regardless of whether it is deposited on pervious or impervious areas.
- Properly dispose of unused flea control products (shampoo, sprays, or collars).
- Manure produced by livestock in uncovered areas should be removed at least daily for composting, or storage in water-tight container prior to disposal. Never hose down to stream or storm drain. Composting or storage areas should be configured and maintained so as not to allow contact with runoff. Compost may be donated to greenhouses, nurseries, and botanical parks. Topsoil companies and composting centers may accept composted manure.
- Line waste pits or trenches with an impermeable layer, such as thick plastic sheeting.
- When possible, allow wash water to infiltrate into the ground, or collect in an area that is routed to the sanitary sewer.
- Confine livestock in fenced in areas except during exercise and grazing times.
- Restrict animal access to creeks and streams, preferably by fencing.
- Install gutters that will divert roof runoff away from livestock areas.

### Optional BMPs

- Increase educational and outreach component of program to promote:
  - Flushing pet wastes down toilet, for treatment in the wastewater treatment facility.
  - Do not flush kitty litter down toilet, as the litter will clog toilets and the sanitary sewer system.
- Require carrying bags, pooper-scooper, or equivalent to safely pick up pet wastes while walking with pets. Dispose of collected wastes properly in trash or into toilet.
- Bathe pets indoors and use less toxic shampoos, when possible have pets professionally groomed.
- Implement pet stations complete with plastic bags and waste receptacles.
- Post signs to encourage others to pick up pet wastes.
- Require proper inoculations to maintain health of pets, and reduce possibility of pathogens in pet wastes.
- Maintain healthy and vigorous pastures with at least three inches of leafy material.
- Consider indoor feeding of livestock during heavy rainfall, to minimize manure exposed to potential runoff.
- Locate barns, corrals, and other high use areas on portions of property that either drain away from or are located distant from nearby creeks or storm drains.
- Development of parks specifically designed to control the impacts of dog waste on receiving waters. This includes use of vegetated buffers, pooper-scooper stations, and the siting of parks out of drainage ways, streams, and steep slopes.



## **DISPOSAL OF GREEN WASTES**

Green wastes entering the storm drain may clog the system creating flooding problems. Green wastes washed into receiving waters create an oxygen demand as they are decomposed, reducing the available oxygen for aquatic life. Pesticide and nutrient residues may be carried to the receiving water with the green wastes.

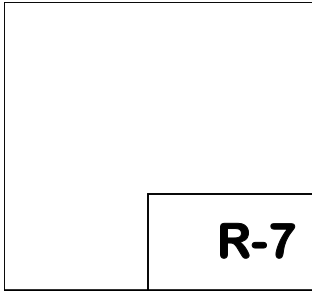
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### **Designated BMPs**

- Prohibit the disposal of green wastes to the street, gutter, public right-of-way, storm drain, or receiving water.

### **Optional BMPs**

- Implement a city wide green waste collection service as a department of the regular waste removal operations.



## HOUSEHOLD HAZARDOUS WASTE

### List of most common HHW products:

Drain openers  
Oven cleaners  
Wood and metal cleaners and polishes  
Automotive oil and fuel additives  
Grease and rust solvents  
Carburetor and fuel injection cleaners  
Starter fluids  
Batteries  
Paint Thinners  
Paint strippers and removers  
Adhesives  
Herbicides  
Pesticides  
Fungicides/wood preservatives

Household hazardous wastes (HHW) are defined as waste materials which are typically found in homes or similar sources, which exhibit characteristics such as: corrosivity, ignitability, reactivity, and/or toxicity, or are listed as hazardous materials by EPA.

Many types of waste can be recycled, recycling options for each waste type are limited. Recycling is always preferable to disposal of unwanted materials. All gasoline, antifreeze, waste oil, and lead-acid batteries can be recycled. Latex and oil-based paint can be reused, as well as recycled. Materials that cannot be reused or recycled should be disposed of at a properly permitted landfill.

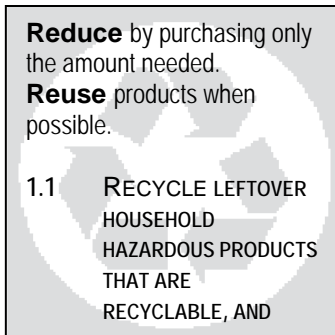
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### Designated BMPs

- Participate in the HHW collection program. Call (714) 834-6752 for the household hazardous waste center closest to your area.
- Never dispose of HHW in the storm drain or in areas that may drain to the storm drain.
- Use non-hazardous or less-hazardous products.
- Household hazardous materials must be stored indoors or under cover, and in closed and labeled containers.
- Emergencies related to HHW should be reported to 911.

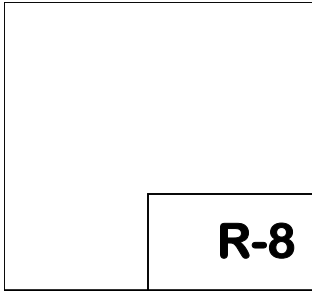
### Optional BMPs

- Participate in HHW reuse and recycling. Call (714) 834-6752 for the participating household hazardous waste centers.



➔ *The California Integrated Waste Management Board has a Recycling Hotline, (800) 553-2962, that provides information and recycling locations for used oil.*





## **WATER CONSERVATION**

Excessive irrigation is often the most significant factor in home and garden care activities contributing to storm sewer pollutant loads. Pollutants may dissolve in irrigation water and carried to the storm sewer, or particles and materials coated with fertilizers and pesticides may be suspended in the irrigation flow and carried to the storm sewer.

Hosing off outside areas to wash them down not only consumes large quantities of water, but also transports any pollutants, sediments, and waste to the storm drain system.

Think before leaving anything in the storm drain. The ocean starts at your front door.

### Designated BMPs

- Irrigation systems must be properly adjusted to reflect seasonal water needs.
- Do not hose off outside surfaces to clean, sweep with a broom instead.
- Fix any leaking faucets and eliminate unnecessary water sources.
- Install anti-siphon valves to outdoor faucets.
- Use a bucket to re-soak sponges/rags while washing automobiles and other items outdoors. Use hose only for rinsing.

### Optional BMPs

- Over watering gardens wastes water and promotes diseases.
- Wash automobiles at a commercial car wash employing water recycling.

## Exhibit A-9.V

High Threat Residential Map



